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# REPORTS

AGRICULTURE • ECONOMICS

from USDA's Economics Agencies

Spring 1992

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# North American Free Trade Agreement

*On February 5, 1991, the leaders of the United States, Mexico, and Canada jointly announced their intention to pursue a North American Free Trade Agreement (NAFTA). This agreement would expand trade and investment in a market of 360 million people and \$6 trillion in output. The following reports from ERS concentrate on background information, trade, investment, labor environment, and other agricultural issues and alternatives associated with the NAFTA proposal.*

**Effects of a Free Trade Agreement on U.S. and Mexican Sanitary and Phytosanitary Regulations**, by Ken Forsythe and Lori Lynch. 13 pp. May 1992.

Sanitary and phytosanitary regulations protect the United States and Mexico from foodborne diseases and other contamination in border-crossing food and agricultural products. Cooperative efforts to prevent and control infestation and infection will likely continue regardless of the reduction or removal of trade-restricting measures.

Order # AIB-649.      \$5.00

**A North American Free Trade Area for Agriculture: The Role of Canada and the U.S.-Canada Agreement**, by Carol Goodloe and Mark Simone. 11 pp. March 1992.

The U.S.-Canada Free Trade Agreement (CFTA) was enacted on January 1, 1989, after 2-1/2 years of negotiations. Participation in a NAFTA is important to Canada in order to maintain its status under the CFTA and to ensure its exports to the United States are not displaced by Mexican products. Canadian grains, oilseeds, beef, and pork exports would likely benefit from improved access to the rapidly growing Mexican market.

Order # AIB-644.      \$5.00

**Intra-Industry Trade Indexes for Canada, Mexico, and the United States, 1962-87**, by Tracy Hart and Bradley J. McDonald. 54 pp. February 1992.

Intra-industry trade, the simultaneous importing and exporting of goods from the same industry classification, tends to be higher for the United States and Canada than for Mexico. Intra-industry trade also points to being higher between Canada and the United States than between Canada and Mexico or Mexico and the United States. Intra-industry trade indexes for 1962-87, compiled from the United Nations Trade Data System, may contribute to the continuing negotiations on a North American Free Trade Area.

Order # AGES-9206.      \$8.00

**The Mexican Economy in the 1990's: Markets Are In; State Control Is Out**, by Mathew Shane and David Stallings. 12 pp. October 1991.

Summarizes the dramatic changes in Mexico's economic policies since 1987. The policies, emphasizing free trade and competitive enterprise, are already yielding tangible results. Economic growth has accelerated and is expected to continue at least through the early 1990's. The United States should gain, too: a more secure and stable southern border and a boost in trade.

Order # AIB-635.      \$4.00

## Who we are

This catalog lists the monographs, periodicals, data products, and video tapes available from USDA's economics agencies since 1989. **Economic Research Service (ERS)** situation and outlook reports and periodicals analyze the current situation and forecast market conditions. ERS monographs offer economic analysis in the areas of trade, production, rural development, farm inputs, and other topics. **National Agricultural Statistics Service (NASS)** publications estimate production, stocks, inventories, disposition, utilization, and prices of agricultural commodities, and such other items as labor and farm numbers. The **World Agricultural Outlook Board (WAOB)** issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities. To order items in this catalog, call our toll free order desk, 1-800-999-6779. To subscribe to this free quarterly catalog, please check the order form on page 17.



# New Monographs from ERS



**Food Marketing Review, 1991**, by Anthony Gallo and others. 137 pp. March 1992.

The perennial best seller examines developments in the U.S. food marketing system. Although retail sales in the

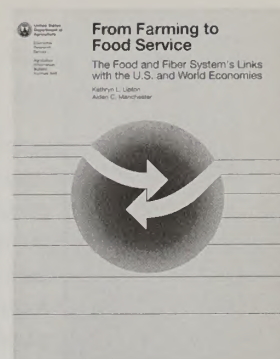
food marketing system showed recession-led declines in 1990 and 1991, food manufacturers and retailers continued to boost profitability because of stable wages and producer prices and streamlining of operations. With fewer mergers and leveraged buy-outs, the industry was more stable than in recent years and continued its strong showing due to increased globalization and higher levels of new plant and equipment spending.

Order # AER-657. \$14.00

**How Did Household Characteristics Affect Food Spending in 1980-88?** by James R. Blaylock and others. 17 pp. February 1992.

Looks at trends in U.S. per capita consumption of total food, food at home, and food away from home using the latest data from annual surveys of urban household food spending for 1980 to 1988. With some noteworthy exceptions, especially among the poor, eating out increased for most kinds of households. Food spending was highest in the Northeast, lowest in the South.

Order # AIB-643. \$5.00



**From Farming to Food Service: The Food and Fiber System's Links With the U.S. and World Economies**, by Kathryn L. Lipton and Alden C. Manchester. 37 pp. January 1992.

This report examines the role of farming in the food and fiber sector, the interaction between the food and fiber sector and the rest of the U.S. economy, and its linkages through trade with the world economy. Events ranging from weather to Federal policy to world supply and demand can seriously affect industries that rely on the sector, including farm machinery and financial services.

Order # AIB-640. \$8.00

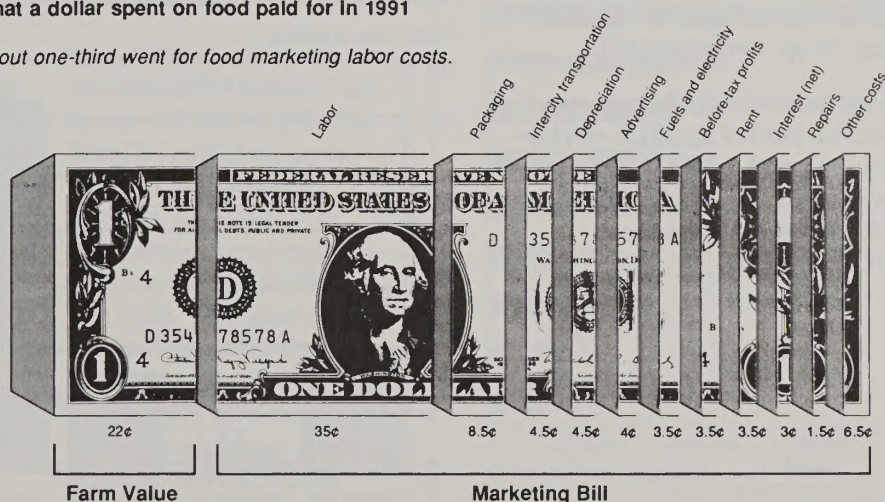
**Food Costs... From Farm to Retail in 1991**, by Denis Dunham. 11 pp. March 1992.

This annual summary of developments in retail food prices finds that the rise in retail food prices slowed dramatically in 1991 under the pressure of large food supplies and recession-weakened consumer demand. Food prices in 1991, as measured by the Consumer Price Index, averaged 2.9 percent above those in 1990, half the 1990 price increase of 5.8 percent, and the lowest since 1985. Food prices in 1991 rose more slowly at supermarkets and other grocery stores than at eating places.

Order # AIB-646. \$5.00

What a dollar spent on food paid for in 1991

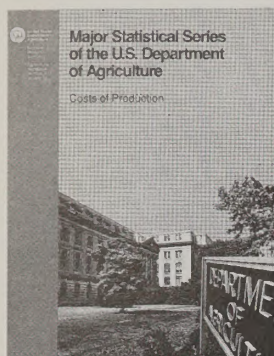
About one-third went for food marketing labor costs.



Includes food eaten at home and away from home. Other costs include property taxes and insurance, accounting and professional services, promotion, bad debts, and many miscellaneous items.



# More New Monographs from ERS



**Major Statistical Series of the U.S. Department of Agriculture, Volume 12: Costs of Production**, by Mitchell J. Morehart and others. 16 pp. March 1992.

This updated volume describes the estimation procedures and data sources for making estimates of annual costs of production for major crop and livestock enterprises. Each budget assesses cash receipts, itemized cash expenses, economic costs, yields, prices, and net returns. **Order # AH-671-12. \$8.00**

**U.S. Average Costs of Production for Major Field Crops**, by Mitchell Morehart and others. 15 pp. December 1991.

Finds that costs of production for most commodities increased only modestly from 1989 to 1990. Cotton rose the most, at 6 percent, while wheat, oats, and barley were relatively stable. Fertilizer expenses declined for nearly all enterprises. **Order # AIB-639. \$4.00**

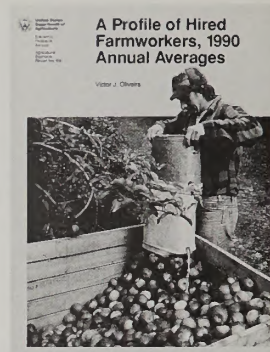
**Farm Sector Balance Sheet, Including Operator Households, 1960-89, and Excluding Operator Households, 1974-89: By Sales Class**, by Kenneth Erickson and others. 48 pp. November 1991.

Furnishes the latest farm sector balance sheet estimates developed by USDA's Economic Research Service. The distribution of farm assets,

debt, and equity has shifted over time. Since 1975, the share of farm equity among the largest farms (annual gross sales of \$500,000 or more) has risen steadily. **Order # SB-831. \$8.00**

**A Geographic Analysis of Seasonal Agricultural Services Farms**, by Jack L. Runyan and Victor J. Oliveira. 9 pp. March 1992.

Over a million farms were classified in 1987 as seasonal agricultural services (SAS) farms, operations that involved field production of fruits, vegetables, and other perishable crops. This report details labor expenditure data to determine location and types of SAS farms (36 percent of them in Florida and California) that used the most farm labor. **Order # AIB-645. \$5.00**



**A Profile of Hired Farmworkers, 1990 Annual Averages**, by Victor J. Oliveira. 10 pp. February 1992.

Examines demographic and employment characteristics of hired farmworkers using data from the Current Population Survey earnings microdata file. The number of hired farmworkers in the United States averaged 886,000 per week in 1990. They tended to be younger and less educated than other wage and salary workers and more likely to be male, Hispanic, and never married. **Order # AER-658. \$5.00**

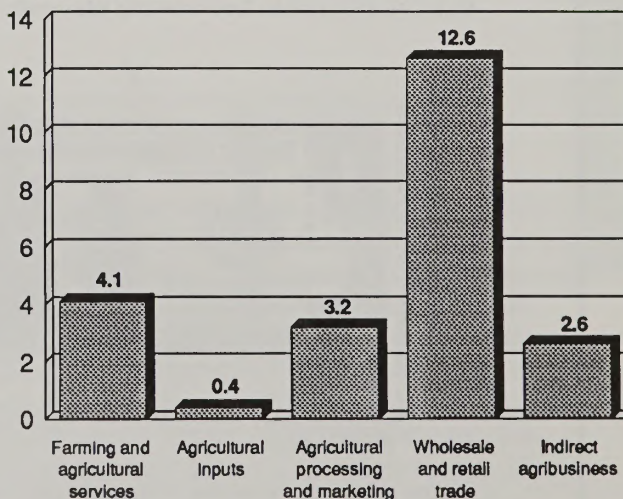
**U.S. Farm and Farm-Related Employment in 1988: How Large, Important, and Regionally Different?** by T. Alexander Majchrowicz and David E. Hopkins. 10 pp. December 1991.

Finds that farm and farm-related employment was 18 percent (23 million jobs) of total U.S. employment in 1988, using a broad definition of the agricultural sector which includes not only farm production but also industries that serve it. **Order # AIB-634. \$4.00**

## Farm and farm-related employment, 1988

*Most employment is located away from the farm.*

Employment in millions







**Intellectual Property Rights and the Private Seed Industry**, by Mary Knudson and LeRoy Hansen. 19 pp. November 1991.

Examines the intellectual property rights that provide seed companies with property ownership to the seed varieties and hybrids that they develop. Looks at the yield differences between purchased and bin run winter wheat seed in 1986/87 and 1987/88 and the value of these differences, as a possible opportunity for private sector seed development. Wheat farmers could raise their yields and profits by using purchased seed instead of bin run seed (from the previous year's harvest). Order # AER-654. \$8.00

**Owning Farmland in the United States**, by Gene Wunderlich. 14 pp. December 1991.

Farmland ownership continues to become more concentrated in the hands of fewer people. About 4 percent of all farmland owners now own nearly half of all U.S. farmland. This report looks at the concentration of land-ownership and characteristics of operator and nonoperator owners. Order # AIB-637. \$4.00

**Leasing Farmland in the United States**, by Denise Rogers. 16 pp. December 1991.

This report examines the extent of agricultural leasing, the characteristics of owners who lease land, and the nature of leasing arrangements. No longer seen mainly as a temporary step toward full ownership, agricultural land leasing has become an effective way for farmers to gain use of land at less risk than full ownership. Leasing gives landlords a means of generating income from land they do not wish to operate. Order # AGES-9159. \$4.00

**Farm Buildings and Farmland: An Analysis of Capital Formation**, by Patrick Canning. 50 pp. February 1992.

Examines how USDA measures the value of the two main physical assets and most costly inputs on the farm, land and buildings, and assesses the efficiency of the models used. Order # TB-1801. \$8.00

**Midsized Farms in 1987**, by Nora L. Brooks. 9 pp. April 1992.

Shows characteristics of midsized farms (commercial farms with sales of \$50,000-\$249,999) and their operators, geographic distribution, participation in Government farm programs, and commodity specialization types. The number of midsized farms has declined in number and proportion over the past three decades. Although sales seem large, actual net returns average \$17,000-\$40,000. Order # AIB-648. \$5.00

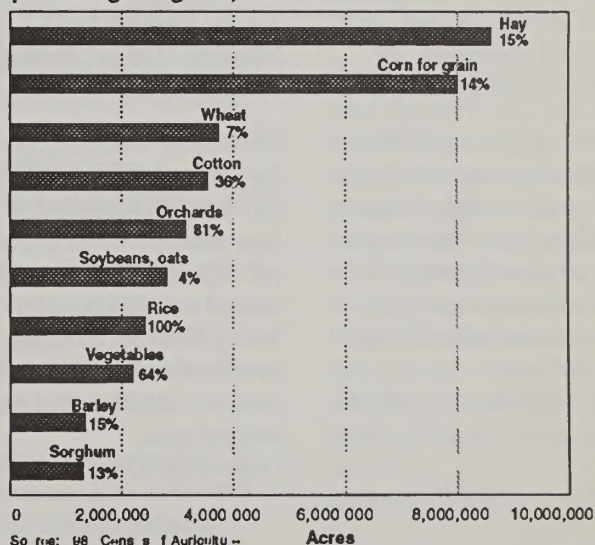
**Agricultural Irrigation and Water Use**, by Rajinder S. Bajwa and others. 116 pp. January 1992.

Here's the latest available information from the major sources of irrigation and water use data: the Bureau of the Census, the U.S. Geological Survey, and the Economic Research Service. This informative report uses tables and graphics to illustrate how each State distributes, uses, and manages its water resources. Reports on population distribution, irrigated acreage distribution, acreage of principal irrigated crops and the proportion of the total crop being irrigated, water sources, use, and disposition, and much more.

For each of the conterminous States, this report . . . compares the population distribution with the location of irrigation to anticipate future competition and conflict over limited water supplies . . . compares agricultural water use with total water use; identifies the top five irrigated counties and their three major irrigated crops . . . compares selected economic characteristics for average irrigated and nonirrigated farms from 1982 to 1987. . . compares water application methods, sources of water, use of alternative energy sources for pumping, and costs of ground and off-farm surface water in 1984 and 1988 . . . and assesses the difference in land value and rents paid for dry, irrigated, and grazing land.

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**Acreage of principal irrigated crops and percentage irrigated, 1987**





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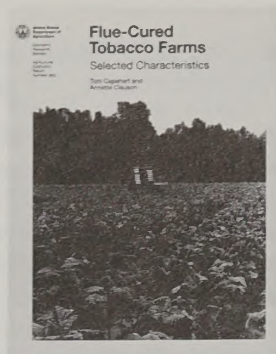


**Weather in U.S. Agriculture: Monthly Temperature and Precipitation by State and Farm Production Region, 1950-90**, by Lloyd D. Teigen and Florence Singer. 129 pp. January 1992.

Presents 1950-90 monthly temperature and precipitation data for the 48 contiguous States. The data, based on geographic areas and harvested cropland areas, highlight variations in crop yield and commodity production, irrigation, water demand, and energy consumption. Order # SB-834. \$11.00

**Ranking of States and Commodities by Cash Receipts, 1990**, by Roger Strickland and others. 89 pp. November 1991.

Lists the top 25 commodities for each State as well as for the Nation, in terms of value of receipts. Also shows top State producers for nearly 40 major commodities, ranging from cattle and calves to vegetables and fruits. Order # SB-832. \$11.00



**Flue-Cured Tobacco Farms: Selected Characteristics**, by Tom Capehart and Annette Clauson. 29 pp. December 1991.

Examines changes in the structure of flue-cured tobacco production in Florida, Georgia, North and South Carolina, and Virginia. Flue-cured tobacco acreage continued to rise in the 1980's because of increased mechanization, reduced labor availability, and Government policies that encouraged larger quota holdings. Order # AER-653. \$8.00

**Trade Dependency Index Tables for Total, Merchandise, and Agricultural Trade, 1960-88**, by Paul V. Johnston. 124 pp. February 1992.

Develops a "trade dependency index" (TDI) to classify countries according to their dependence on imports and exports. TDI's are calculated for 138 countries during 1960-88, covering three levels of aggregation: total, merchandise, and agricultural trade. Order # SB-835. \$11.00

**Cotton Ginning Charges, Harvesting Practices, and Selected Marketing Costs, 1990/91 Season**, by Edward H. Glade, Jr., and others. 4 pp. November 1991.

Average ginning and wrapping charges in 1990/91 were \$43.68, a drop of 58 cents per 480-pound bale compared with the year before. The number of gins continued to decline, but the decline was moderated by a significantly larger 1990 crop and prospects for an even larger 1991 crop. Order # AGES-9157. \$4.00

**Modeling Long-Term Government Bond Yields: An Efficient Market Approach**, by Paul Sundell and Mark Denbaly. 13 pp. March 1992.

This report constructs a model for generating forecasts of T-bond rates that can be used to predict specific agricultural long-term interest rates. Movements in T-bond rates directly affect economic sectors, like agriculture, that are sensitive to interest rates. Order # AGES-9207. \$5.00

**Agricultural Resources: Agricultural Land Values**. 7 pp. April 1992.

This annual report finds that the per acre value of U.S. farm real estate rose 1 percent during 1991, the fifth consecutive increase since its downward slide ended in 1987. Order # ARS-492. \$5.00

**Profile of Participants in FmHA's Guaranteed Farm Loan Programs**, by Steven R. Koenig and Patrick J. Sullivan. 48 pp. December 1991.

Establishes a baseline of information about the operation of the guaranteed loan programs before the advent of the federally sponsored secondary market for such loan guarantees. Most FmHA credit assistance to farmers is no longer in the form of direct loans, but instead takes the form of loans guaranteed against default losses by FmHA. Order # AGES-9160. \$8.00

**Profit Efficiency of Farm Credit System Associations**, by Robert N. Collendar and others. 15 pp. November 1991.

A technical investigation of the viability and efficiency of FCS direct-lending associations. Despite recent and considerable consolidation, farm credit system associations may benefit from yet further mergers. Fewer and larger associations would be more efficient in the long term, but inefficiencies may be hard to overcome in the short run because of problems relating to existing loans and fixed investments. Order # AGES-9155. \$4.00





**U.S. Egg and Poultry Statistical Series, 1960-90**, by Agnes M. Perez and others. 254 pp. December 1991.

Highlights the most significant monthly, quarterly, and annual data for eggs and poultry during 1960-90. Data on eggs, broilers, and turkeys cover indicators of production, stocks, trade, per capita consumption, costs of production, farm prices, wholesale prices, and retail prices.  
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**Testing Two Trade Models in Latin American Agriculture**, by Carlos A. Amade. 27 pp. January 1992.

Finds that Latin American agricultural trade is primarily driven by country differences in relative factor abundance rather than technology differences, a conclusion mostly consistent with both the Heckscher-Ohlin and Markusen propositions.  
Order # AGES-9203. \$8.00

**Measuring Agricultural Trade Distortion: A Simple Approach**, by Vernon O. Roningen and Praveen M. Dixit. 24 pp. December 1991.

Describes an index that estimates the volume of trade distortion caused by the agricultural policies of trading countries. The index could help trade analysts compare the effect on trade of agricultural support policies across countries and commodities.  
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**African Food Needs Assessment Situation and Outlook Report**. 58 pp. November 1991.

A review of Africa's food needs, as well as the short-term global grain outlook and food aid availability. Africa's cereal food aid needs in 1991/92 are somewhat higher than historical receipts despite an anticipated recovery in total cereal production. Needs are greatest in heavily populated West Africa, followed by East and South Africa where poor weather and ongoing civil conflict have resulted in large-scale population movements and severely curtailed food supplies.  
Order # GFA-2. \$11.00

**U.S. Imports of Fruits and Vegetables Under Plant Quarantine Regulations, Fiscal Year 1989**, by Joan Pearrow. 49 pp. April 1992.

This statistical report summarizes imports of over 200 commodities, by country of origin and port of entry during FY 1989.  
Order # AGES-9209. \$8.00

**Foreign Agricultural Trade of the United States, Calendar Year 1990: Supplementary Tables**, by Mary L. Fant. 291 pp. February 1992.

Using statistical summaries, shows U.S. foreign trade in agricultural products by country during CY 1989 and 1990 for exports and imports valued at more than \$1 million.  
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**Agricultural Outlook Special Reprint: Agriculture in the New Central Europe**. 23 pp. February 1992.

The changes taking place in the Central and East European countries are remarkable not only for their scope, but also because few guideposts exist on transforming an economy managed by planners into one driven by markets. This reprint of special November and December 1991 *Agricultural Outlook* articles looks at both the vanguard countries of change—Poland, Hungary, and Czechoslovakia—as well as developments in the Balkan States of Albania, Bulgaria, Romania, and Yugoslavia.  
Order # AGES-9205. \$8.00

**Foreign Ownership of U.S. Agricultural Land Through December 31, 1991**, by J. Peter DeBraal. 48 pp. April 1992.

Foreign investment in U.S. agricultural land amounted to 14.8 million acres in 1,918 of 3,041 counties by the end of 1991. Data for each county show the number of acres and parcels,

value, country of origin, and use of foreign-owned agricultural land.  
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**Government Intervention in Moroccan Agriculture: Evolution of Subsidy Equivalents and Possible Trade Reform Effects**, by Mark D. Wenner. 40 pp. March 1992.

Surveys Moroccan agricultural policies toward wheat, barley, corn, cotton lint, raw sugar, wheat flour, edible vegetable oil, and refined sugar for 1982-89, a period marked by economic adjustment, when producer support peaked, then declined while consumer subsidies fluctuated. If a GATT agreement liberalizes global agricultural trade and pricing policies, Morocco, as a food importer, would be vulnerable to increased import prices.  
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**Orange Import Demand: Four Markets for U.S. Fresh Oranges**, by Amy L. Sparks. 15 pp. November 1991.

U.S. fresh orange shipments are expected to increase or remain about steady in the top four importing markets: up significantly in Singapore, up moderately in Canada and Hong Kong, and about steady in the EC. Price will ultimately determine just how many U.S. oranges will be shipped; higher prices will reduce exports.  
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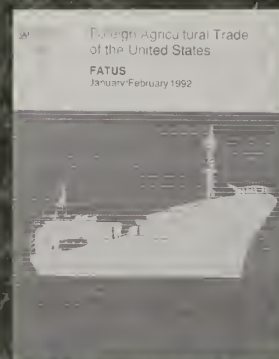
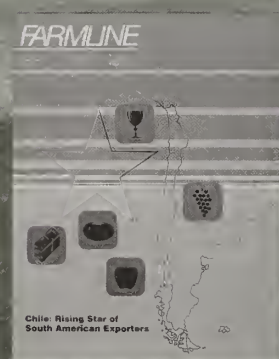
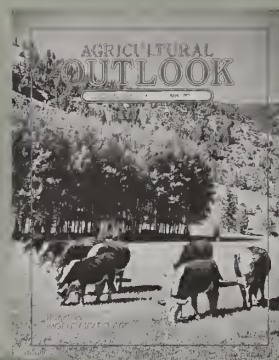
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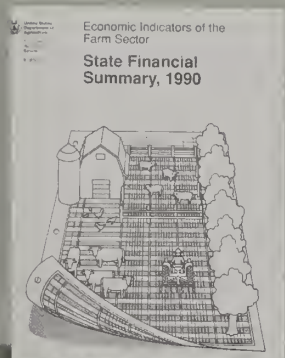
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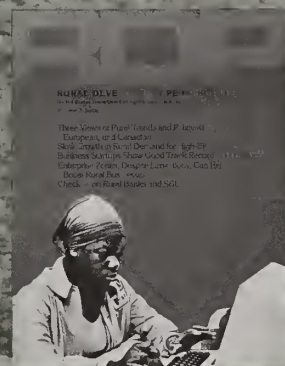
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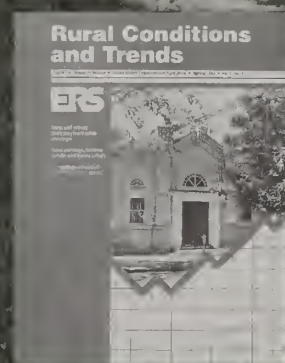
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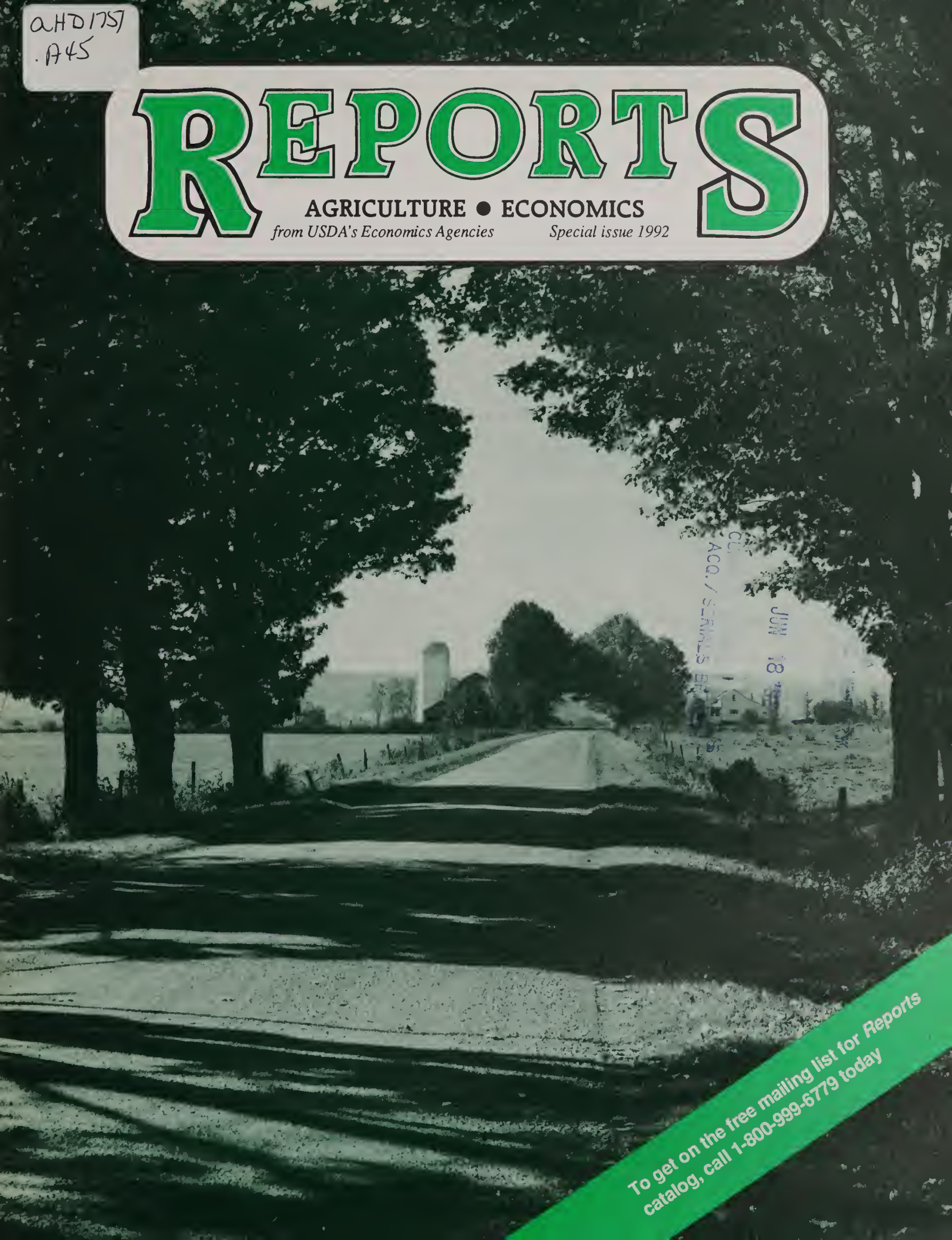
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# REPORTS

AGRICULTURE • ECONOMICS

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This catalog lists the monographs, periodicals, data products, and video tapes available from USDA's economics agencies since 1989. **Economic Research Service (ERS)** situation and outlook reports and periodicals analyze the current situation and forecast market conditions. ERS monographs offer economic analysis in the areas of trade, production, rural development, farm inputs, and other topics. **National Agricultural Statistics Service (NASS)** publications estimate production, stocks, inventories, disposition, utilization, and prices of agricultural commodities, and such other items as labor and farm numbers. The **World Agricultural Outlook Board (WAOB)** issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities. To order items in this catalog, call our toll free order desk, 1-800-999-6779. To subscribe to this free quarterly catalog, please check the order form on page 37.



# ERS-NASS Periodicals and Specialists

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Editor: Priscilla Glynn, 219-0494

**Economic Indicators of the Farm Sector.** Updates economic trends in U.S. agriculture. Each issue explores a different aspect of the U.S. farm sector: income and expenses, national and State financial summaries, production and efficiency statistics, and costs of production for livestock and dairy and for major field crops. 5 issues. **Order # ECI. 1 yr, \$14; 2 yrs, \$27; 3 yrs, \$39.**

Editors: *Financial Summaries*, Linda Farmer, 219-0804  
*Cost of Production, Livestock & Dairy*, Hosein Shapouri, 219-0248  
*Cost of Production, Field Crops*, Robert Dismukes, 219-0801  
*Production & Efficiency Statistics*, George Douvelis, 219-0432

**Foreign Agricultural Trade of the United States.** Updates the quantity and value of U.S. farm exports and imports, plus price trends. Keeps readers abreast of how U.S. trade stacks up in a global market. 6 issues, plus 2 supplements. **Order # FAT. 1 yr, \$25; 2 yrs, \$49; 3 yrs, \$72.**

Editor: Thomas Warden, 219-0822

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Editor: David Smallwood, 219-0864

**Rural Development Perspectives.** Crisp, nontechnical articles on the results of new rural research and what those results mean. Shows the practical application of research in rural banking, aging, housing, the nonmetro labor force, poverty, and the effect of farm policies on rural areas. 3 issues. **Order # RDP. 1 yr, \$9; 2 yrs, \$17; 3 yrs, \$24.**

Editor: Molly Killian, 219-0520

**Rural Conditions and Trends.** Tracks rural events on a variety of subjects: macroeconomic conditions, employment and underemployment, industrial structure, earnings and income, poverty, and population. 4 issues. **Order # RCA. 1 yr, \$14; 2 yrs, \$27; 3 yrs, \$39.**

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product safety, nutrition, marketing, and processing technology. 4 issues. **Order # NFR. 1 yr, \$11; 2 yrs, \$21; 3 yrs, \$30.**

Editor: Steven Ott, 219-0313

## Field Crop Reports

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**Crop Production.** Reports monthly indicated production by crop, plus three supplements on acreage planted and harvested (June), an annual summary showing acreage, yield, and production data for the previous year and revised for the year before that (January), and prospective plantings as of March 1 (March). 12 issues plus 4 supplements. **Order # PCP. 1 yr, \$36; 2 yrs, \$71; 3 yrs, \$106.**

Editor: John Witzig, 720-2127

**Crop Progress.** Lists planting, fruiting, and harvesting progress and overall condition of selected crops in major producing States. Weekly during the growing season, April through November. **Order # PCR. 1 yr, \$30; 2 yrs, \$59; 3 yrs, \$88.**

Editor: Martin Owens, 720-2157

**Grain Stocks.** Stocks of major grains, January, March, June, and September. 4 issues. **Order # PGS. 1 yr, \$11; 2 yrs, \$21; 3 yrs, \$31.**

Editor: Bill Dowdy, 720-3843

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Editor: Jim Brewster, 720-7688

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Editor: Kirby Cavett, 720-8843

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Editor: Arvin Budge, 720-4285

**Cotton Ginnings.** Reports cotton ginned to date during August through March at the national, State, and county levels. 16 issues mailed approximately twice per month during the August-March ginning season, plus an annual summary. **Order # PCG. 1 yr, \$20; 2 yrs, \$39; 3 yrs, \$58.**

Editor: Roger Latham, 720-5944

**Rice Stocks.** Rough and milled rice stocks on and off farms, first of December, March, August, and October, by State. 4 issues. **Order # PRS. 1 yr, \$11; 2 yrs, \$21; 3 yrs, \$31.**

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Editor: Kevin Hintzman, 720-5412

**Celery.** Monthly plantings and area growing in Florida, California, New York, and Michigan. 12 issues. Order # PCE. 1 yr, \$12; 2 yrs, \$23; 3 yrs, \$34.  
Editor: Arvin Budge, 720-4285

**Cherry Production.** Mid-June production forecast for 1991 crop, Great Lakes States. Annual, June. Order # ZCP. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Jim Brewster, 720-7688

**Citrus Fruits.** Summary of acreage, yield, production, use, price, and value 1990-91 crop and revised 1989-90 crop. Annual, September. Order # ZCF. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Kevin Hintzman, 720-5412

**Cranberries.** Indicated 1991 production by State; utilization, price, and value for 1989 and 1990 crops, by State. Annual, August. Order # ZCR. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Jim Brewster, 720-7688

**Hazelnut Production.** Late August production forecast for 1991 crop. Annual, August. Order # ZFP. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Kevin Hintzman, 720-5412

**Noncitrus Fruits and Nuts.** Mid-year and annual summary of acreage, yield, production, use, price, and value of crop, by State. 2 issues. Order # PNF. 1 yr, \$12; 2 yrs, \$23; 3 yrs, \$34.  
Editor: Steve Ropel, 720-3843

**Pistachio Production.** Late August production forecast. Annual. Order # ZPP. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Kevin Hintzman, 720-5412

**Walnut Production.** Production forecast for California walnuts. Annual, September. Order # ZWP. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Kevin Hintzman, 720-5412

**Vegetables.** Monthly production forecasts, preliminary planted area, yield, production, and prices. 12 issues plus preliminary and annual summaries. Order # PVG. 1 yr, \$18; 2 yrs, \$35; 3 yrs, \$52.  
Editor: Steve Ropel, 720-3843

## Livestock Reports

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**Sheep and Goats.** Inventory, value, and number, by State. January 1 angora goat inventory and value for Arizona, Michigan, New Mexico, Oklahoma, and Texas only; all goat inventory and value for Texas only. Lamb crop by State and number of operations keeping sheep. Annual, February. Order # ZSG. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Linda Simpson, 720-3578

**Cattle.** Inventory number and value of all cattle and calves, number by classes, expected calf crop, distribution by size groups and State. 2 issues, plus 12 monthly issues of *Cattle on Feed*. Order # PCT. 1 yr, \$20; 2 yrs, \$39; 3 yrs, \$58.  
Editor: Glenda Shepler, 720-3040

**Hogs and Pigs.** Inventory and value and number by classes, farrowings and pig crop, breeding intentions, number of operations keeping hogs, and percentage of hog operations by size groups. 4 issues. Order # PHP. 1 yr, \$11; 2 yrs, \$21; 3 yrs, \$31.  
Editor: Doyle Fuchs, 720-3106

**Livestock Slaughter.** Number of head live weight and dressed weight of cattle, calves, sheep and lambs, and hogs slaughtered in commercial plants, by State. Red meat production by species. 12 issues plus summary. Order # PLS. 1 yr, \$24; 2 yrs, \$47; 3 yrs, \$70.  
Editor: Linda Simpson, 720-3578

**Meat Animals: Production, Disposition, and Income.** Annual balance sheet and income estimates for cattle, calves, hogs, and sheep and lambs, by State. Annual, April. Order # ZMA. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Bob Cole, 720-6880

**Wool and Mohair.** Number of sheep shorn, wool production, price, and value, by State. Number of goats clipped, mohair production, and value for AZ, MI, NM, OK, and TX. Annual, March. Order # ZWM. 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Linda Simpson, 720-3578

## Poultry Reports

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**Broiler Hatchery.** NEW. Number of broiler chicks placed and broiler-type eggs set in incubators during the previous week in the 15 major broiler-producing States. Weekly. Order # PBH. 1 yr, \$35; 2 yrs, \$69; 3 yrs, \$103.  
Editor: Thomas Kruchten, 690-4870

**Egg Products.** Production of liquid, frozen, and dried egg products, under Federal inspection, by class and utilization. 12 issues. Order # PEP. 1 yr, \$15; 2 yrs, \$29; 3 yrs, \$43.  
Editor: Thomas Kruchten, 690-4870

**Eggs, Chickens, and Turkeys.** Number of layers, eggs per 100 layers, total eggs produced, broiler and egg-type chicks hatched, and number of eggs in incubators; number of turkey poults placed; number of broiler-type pullet chicks. 12 issues, plus copies of *Hatchery Production* annual, *Layers and Egg Production* annual, *Poultry Production and Value*, and *Turkeys*. Order # PEC. 1 yr, \$24; 2 yrs, \$47; 3 yrs, \$70.  
Editor: Robert Little, 720-6147

**Poultry Slaughter.** Number of head and pounds slaughtered under Federal inspection by class, and estimated total poultry slaughtered. 12 issues. Order # PPY. 1 yr, \$14; 2 yrs, \$27; 3 yrs, \$40.  
Editor: Ron Sitzman, 720-3244



**Turkey Hatchery.** Number of poults, number of eggs in incubators. 12 issues. **Order # PTH.** 1 yr, \$14; 2 yrs, \$27; 3 yrs, \$40.  
Editor: Ron Sitzman, 720-3244

## Dairy Reports

**Dairy Products.** Production of butter, cheese, frozen products, evaporated, condensed, and dry milk and whey products. Shipments, stocks, and prices of dry milk and whey products. 12 issues plus summary. **Order # PDP.** 1 yr, \$20; 2 yrs, \$39; 3 yrs, \$58.  
Editor: Dan Buckner, 720-4448

**Milk Production.** Number of milk cows, production per cow, and total milk production for major States. 12 issues plus copy of *Milk Production, Disposition, and Income*. **Order # PMP.** 1 yr, \$16; 2 yrs, \$31; 3 yrs, \$46.  
Editor: Dan Buckner, 720-4448

## Price and Expenditure Reports

**Agricultural Prices Monthly.** Prices received by farmers for principal crops; livestock and livestock products; index numbers of prices received by farmers; feed price ratios; index of prices paid by farmers and parity prices. 12 issues. **Order # PAP.** 1 yr, \$24; 2 yrs, \$47; 3 yrs, \$70.  
Editor: Rick Schuchardt, 690-3236

**Agricultural Prices Annual.** Summary of indexes of prices received and paid by farmers; prices for farm commodities and prices paid for production items, by State. Annual, June. **Order # ZAP.** 1 yr, \$8; 2 yrs, \$15; 3 yrs, \$22.  
Editor: Rick Schuchardt, 690-3236

**Crop Values.** Season average prices and value of production of principal crops, including revised data for previous year. *NOTE:* State estimates for fruits and nuts included in *Noncitrus Fruits and Nuts Annual*. Annual, January. **Order # ZCV.** 1 yr, \$6; 2 yrs, \$11; 3 yrs, \$16. Editor: Rick Schuchardt, 690-3236

**Farm Production Expenditures.** Results of the farm production expenditure survey, by production region and economic class. 2 issues. **Order # PFP.** 1 yr, \$12; 2 yrs, \$23; 3 yrs, \$34.  
Editor: Dick Clark, 690-3229

**Prices Received, Minnesota-Wisconsin Manufacturing Grade Milk.** Minnesota-Wisconsin grade milk price series and final two-State estimates. Annual, June. **Order # ZPR.** 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13. Editor: Mary Keough, 690-3237

## Other Reports

**Agricultural Chemical Usage.** 2 issues annually. *Field Crops*, March, shows chemical application rates and acres treated, by State and the United States, for corn, cotton, potatoes, rice, soybeans, sorghum, and wheat. *Fruits and Nuts*, June, shows chemical application rates and acres treated for selected fruits and nuts in major

producing States. **Order # PCU.** 1 yr, \$11; 2 yrs, \$21; 3 yrs, \$31.  
Editor: Sam Rives, 720-2324

**Catfish.** Processors' monthly reports on farm-raised catfish. Roundweight purchased, prices paid, inventory, quantity sold, and price. 12 issues plus 4 issues of *Catfish Production* (includes grower inventory numbers by size groups, and some sales and cost of production data). **Order # PCF.** 1 yr, \$15; 2 yrs, \$29; 3 yrs, \$43.  
Editor: Ron Sitzman, 720-3244

**Trout Production.** Grower sales and cost of production, selected States. Annual, October. **Order # ZTP.** 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Robert Little, 720-6147

**Cold Storage.** End-of-month stocks of meat, dairy and poultry products, fruits, nuts, and vegetables. 12 issues plus summary. Includes copy of *Capacity of Refrigerated Warehouses*, issued in February in even years only. **Order # PCS.** 1 yr, \$20; 2 yrs, \$39; 3 yrs, \$58.  
Editor: John Lange, 720-9185

**Farm Labor.** Regional and national data for unpaid, hired, and self-employed workers and wage rates. Also includes number of all workers and their wage rates for selected States. 12 issues. **Order # PFL.** 1 yr, \$13; 2 yrs, \$25; 3 yrs, \$37.  
Editor: Tom Kurtz, 720-3228

**Farm Numbers and Land in Farms.** Number of farms in operation, and average size (acreage) of farms, individual States, and U.S. totals. Sales class estimates for number of farms, land in farms, and average size of farms for U.S. and selected States. Annual, July. **Order # ZFL.** 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Dan Ledbury, 720-1790

**Floriculture Crops.** Area of production and sales of cut flowers, flowering potted plants, foliage, bedding/garden plants, cut cultivated greens, and special Hawaiian crops. Annual, April. **Order # ZFC.** 1 yr, \$8; 2 yrs, \$15; 3 yrs, \$22.  
Editor: Jim Brewster, 720-7688

**Honey.** Annual report of number of colonies of bees, honey, production, price, and value, and honey stocks as of December 15, by States. Annual, February. **Order # ZHO.** 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13. Editor: Thomas Krutchten, 690-4870

**Mink.** Number of pelts produced during the marketing year, number of females bred to produce kits, number of mink farms, average marketing price per pelt, and value of pelts produced. Annual, July. **Order # ZMI.** 1 yr, \$5; 2 yrs, \$9; 3 yrs, \$13.  
Editor: Thomas Krutchten, 690-4870

**Mushrooms.** Area, production, price, and value, by variety, selected producing States, utilization, and intentions for coming year. Annual, August. **Order # ZMU.** 1 yr, \$6; 2 yrs, \$11; 3 yrs, \$16.  
Editor: Kevin Hintzman, 720-5412

# Specialists on Other Topics

Questions about supplies, prices, or other data on the following topics can be addressed to their subject matter specialists.

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Floriculture	Doyle Johnson	219-0884
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## Rural Development

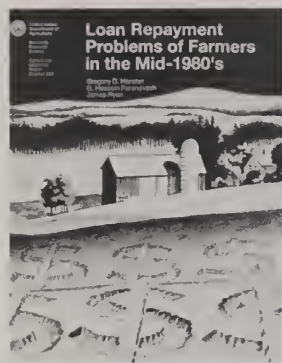
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# New Monographs from ERS



**Loan Repayment Problems of Farmers in the Mid-1980's**, by Gregory D. Hanson, G. Hossein Parandvash, and James Ryan. 29 pp. September 1991.

Reviews the bottom line of the 1980's farm financial crisis: farmers' loan defaults and subsequent loan losses. The financial squeeze subsided during the late 1980's, mainly through a combination of debt repayment and loan writeoffs. This report views the fiscal problems according to location, farm size and type, and socio-economic characteristics. Order # AER-649. \$8.00

**Characteristics of Burley Tobacco Farms**, by Tom Capehart. 11 pp. September 1991.

Burley tobacco is the second most important kind of tobacco grown in the United States. This report examines the structure and characteristics of burley tobacco farming in Kentucky and Tennessee using data from the 1989 Farm Costs and Returns Survey. Includes discussions of burley acreage and quota, land and quota tenure, farm size and other crop and livestock enterprises, and operator characteristics. Order # AIB-633. \$4.00

**Implications of New Technology for the Livestock Sector: Animal Growth Hormones**, by John McClelland, Fred Kuchler, and John Reilly. 18 pp. September 1991.

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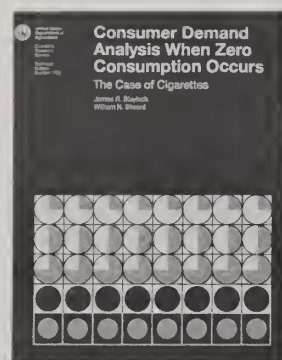
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**Hired and Contract Labor in U.S. Agriculture, 1987: A Regional Assessment of Structure**, by Victor J. Oliveira. 20 pp. May 1991. **Order # AER-648. \$8.00.** Finds that U.S. farmers spent almost \$13 billion on hired and contract labor in 1987, about 12 percent of total farm production expenses.

**The Agricultural Work Force of 1987: A Statistical Profile**, by Victor J. Oliveira and E. Jane Cox. 40 pp. May 1989. **Order # AER-609. \$5.50.** Discusses the demographic, employment, and regional characteristics of the agricultural work force, including hired farmworkers, farm operators, and unpaid farmworkers.

**A Summary of Federal Laws and Regulations Affecting Agricultural Employers**, by Jack L. Runyan. 18 pp. January 1989. **Order # AIB-550. \$5.50.** A single source of information describing Federal laws and regulations that pertain to agricultural employer-employee relations and agricultural employment taxes.

**Will Immigration Reform Affect The Economic Competitiveness of Labor-Intensive Crops?** by James A. Duffield and Lewell Gunter. 28 pp. May 1991. **Order # AGES 9126. \$8.00.** Identifies U.S. producers of labor-intensive crops most likely to be exposed to more competition if immigration reform increases their labor costs.

**Labor Expenditures Help Determine Farms Affected by Immigration Reform**, by James A. Duffield and others. 16 pp. April 1989. **Order # AIB-557. \$3.00.** Focuses on farms that reported labor expenditures in 1986 in terms of commodities produced, sales class, and location to identify farms most vulnerable to a reduced supply of farmworkers.

**Where Do Farm Households Earn Their Income?** by Nora Brooks and Donn A. Reimund. 8 pp. February 1989. **Order # AIB-560. \$3.00.** Examines the relative importance of farm

and off-farm sources of income by type of farm, farm size, region, and proximity to metro employment centers.

**Trends in the Hired Farm Working Force, 1945-87**, by Victor J. Oliveira. 16 pp. April 1989. **Order # AIB-561. \$3.00.** Examines factors behind the historical trends in the size and composition of the hired farm workforce.

**Alternative Definitions of Farm People**, by Vera Banks and others. 36 pp. March 1989. **Order # AGES 89-9. \$5.50.** Notes differences among farm population definitions by residence, income, and farm occupation.

**Estimating Farm Labor Elasticities to Analyze the Effects of Immigration Reform**, by James A. Duffield. 20 pp. February 1990. **Order # AGES 9013. \$8.00.** Uses a simultaneous equation model to measure the effect of the Immigration Control Act of 1986 on the U.S. farm labor market.

**Nonfarm Employment of Farm Operators, Hired Farmworkers, and Unpaid Farmworkers**, by Victor J. Oliveira. 20 pp. January 1990. **Order # AER-624. \$4.00.** Looks at age of worker, education level, minority status, head of household status, days spent doing farmwork, and residence in metropolitan areas and how these factors affect hired farmwork.

**Agriculture-Related Employment: Farm Commodity Programs and Rural Economies**, by Mindy Petrusis and others. 16 pp. September 1990. **Order # AIB-613. \$4.00.** Describes the modern food and fiber complex and Government commodity programs and how they affect nonmetro economies and employment.

**Characteristics of Agricultural Work Force Households, 1987**, by Victor J. Oliveira and E. Jane Cox. 8 pp. August 1990. **Order # AIB-612. \$4.00.** Spotlights those households most affected by farm job loss.

## Farm Operations and Finance

**Farm Businesses End the Decade With Strong Financial Performance**, by Mitchell J. Morehart and others. 21 pp. October 1990. **Order # AIB-616. \$8.00.** Presents findings (as of January 1, 1990) on the financial performance of U.S. farms. Updates the next two listings.

**Financial Characteristics of U.S. Farms, January 1, 1989: A Summary**, by Mitchell J. Morehart and others. 16 pp. July 1989. **Order # AIB-569. \$3.00.** Summarizes information on the financial performance of farmers from the January 1, 1989, Farm Costs and Returns Survey.

**Loan Repayment Problems of Farmers in the Mid-1980's.** NEW. See page 7.

**Financial Characteristics of U.S. Farms, January 1, 1989**, by Mitchell J. Morehart and others. 171 pp. December 1989. **Order # AIB-579. \$8.00.** Provides a detailed analysis of farm financial performance based on the latest information from the January 1, 1989, Farm Costs and Returns Survey.

**Diversity in U.S. Agriculture: A New Delineation by Farming Characteristics**, by Judith E. Sommer and Fred K. Hines. 19 pp. July 1991. **Order # AER-646. \$8.00.** Provides a starting point for assessing regional differences in the effects of alternative public policies on the farm sector. Includes a multicolor map illustrating the diversity of crops grown in various U.S. counties.

**Farm Sector Balance Sheet, Including Operator Households, 1960-89: United States and by State**, by Kenneth Erickson and others. 211 pp. August 1991. **Order # SB-826. \$14.00.** Furnishes the latest farm sector balance sheet estimates developed by ERS, incorporating numerous revisions in estimating procedures and changes in data in national and State-level estimates of assets, debt, and equity.

**Farms Without Program Payments**, by Robert D. Reinsel. 12 pp. August 1991. **Order # AIB-630. \$4.00.** About 1.4 million farms, two-thirds of all farms, operated without direct Federal farm program support in 1987 or 1988. These farms either did not produce the program commodities or did not participate in farm programs, but could receive Government support through marketing orders, crop insurance subsidies, or other support mechanisms.

**Farm Financial Stress, Farm Exits, and Public Sector Assistance to the Farm Sector in the 1980's**, by Jerome M. Stam and others. 56 pp. April 1991. **Order # AER-645. \$8.00.** Examines the effects of short-term economic events on farm exits, net changes in farm numbers, longrun trends in farm numbers, and public sector support for the farm sector.

**Estimating Entry and Exit of U.S. Farms**, by Fred Gale and David Henderson. 16 pp. March 1991. **Order # AGES 9119. \$4.00.** Finds that the number of farms declined during the 1980's mostly because of fewer people starting farms rather than an increase in the rate of operators leaving farming.

**Involuntary Exits from Farming: Evidence from Four Studies**, by Susan E. Bentley and others. 16 pp. November 1989. **Order # AER-625. \$3.00.** Analyzes four cases of farm exit in southwestern Wisconsin, Texas, North Dakota, and Dodge County, Georgia, mainly during the early 1980's.

**Exits from Farming in Southwestern Wisconsin, 1982-86**, by Susan E. Bentley and William E. Saupe. 24 pp. February 1990. **Order # AER-631. \$8.00.** Finds that one in every five farm operators in southwestern Wisconsin left farming in the early 1980's.

**Farms and Land in Farms: Final Estimates, 1979-87.** 8 pp. February 1990. **Order # SB-792. \$4.00.** NASS' review of 1979-87 statistics on farms and land in farms.

**Farm Financial Conditions, by Region, January 1, 1989**, by Gregory Hanson and others. 12 pp. December 1989. **Order # AIB-577. \$3.00.** Presents farm financial findings from USDA's annual Farm Costs and Returns Survey.

**Farm Operating and Financial Characteristics, 1987**, by Mitchell Morehart. 168 pp. April 1990. **Order # AGES 9032. \$14.00.** Presents an assortment of farm economic data along with statistical measures of precision for 1987.

**Alternative Measures of Farm Output to Classify Farms by Size**, by Gregory D. Hanson and others. 32 pp. January 1989. **Order # TB-1749. \$5.50.** Looks at six different ways

of classifying farms to determine how they are faring: three measures based on value of sales and three measures based on value of production.

**Estimating Supply Response of Multiproduct Farms**, by V. Eldon Ball. 24 pp. January 1989. **Order # TB-1750. \$5.50.** Finds that operators of multiproduct farms make production decisions based on aggregate economic assessments, not just on isolated assessments for each crop.

**The U.S. Farming Sector Entering the 1990's: Twelfth Annual Report on the Status of Family Farms**, by Thomas Carlin and Sara Mazie. 72 pp. June 1990. **Order # AIB-587. \$11.00.** Finds that the U.S. farm sector entered the 1990's in a much-improved financial position after the financial difficulties of the early and mid-1980's.

**The Distribution of Farm Program Payments, 1987**, by Robert D. Reinsel. 11 pp. June 1990. **Order # AIB-607. \$4.00.** Shows which groups of farms received Government program payments in 1987, and in what amount and proportion.

**Cash Rents for Farms, Cropland, and Pasture, 1960-89**, by John Jones and Roger Hexem. 43 pp. October 1990. **Order # SB-813. \$8.00.** This bulletin reports State-average cash rents for whole farms, cropland, and pasture and cash rents as percentages of rented land values during 1960-89.

**Farm Structural Trends in the 1980's**, by Nora L. Brooks and others. 6 pp. June 1990. **Order # AIB-605. \$4.00.** A snapshot of the farm sector, covering trends in farm numbers, size, sales, asset values, operator characteristics, and farmland, based on 1987 Census of Agriculture data.

**Farmer Buying/Selling Strategies and Growth of Crop Farms**, by Kenneth R. Krause. 132 pp. April 1989. **Order # TB-1756. \$8.00.** Finds that large crop farms, with large input purchases and product sales, can often bargain for better terms than are available to smaller farms and can get better prices or access to services.

**Dynamic Asset Replacement Decisions To Enhance Farm Profits**, by John W. McClelland and others. 24 pp. June 1989. **Order # TB-1758. \$5.50.** Develops a model which can improve farm profitability by helping farmers determine when to rejuvenate assets instead of replacing them.

**A Historical Look at Farm Income**, by Cheryl D. Johnson. 27 pp. May 1990. **Order # SB-807. \$8.00.** Presents the national farm income statistics, dating back to 1910.

**Aspects of Farm Finances: Distribution of Income, Family Income, and Direct Payments, 1986**, by Robert D. Reinsel and David Banker. 28 pp. April 1990. **Order # AER-630. \$8.00.** Cross-classifies 1986 Farm Costs and Returns Survey data to more clearly show the diverse nature of farms and their greatly varying financial conditions.

**1988 Farm Costs and Returns Survey Data: Selected State and Region Highlights.** 151 pp. February 1990. **Order # AGES 9012. \$11.00.** A collection of 34 reports highlighting 1988 data compiled from the annual Farm Costs and Returns Survey.



## Farmland

**Farmland Ownership and Renting in the United States, 1987**, by Olaf Kula and Denise Rogers. 12 pp. June 1991. **Order # AGES 9130. \$8.00.** Summarizes information from the 1987 Census of Agriculture on owning and renting farmland. Also furnishes information on farms operated by females and blacks, types of farm operators who work off the farm, and concentration of farm corporations.

**Urbanizing Farmland: Dynamics of Land Use Change in Fast-Growth Counties**, by Ralph E. Heimlich and others. 45 pp. August 1991. **Order # AIB-629. \$8.00.** Using the popular briefing book style, this report shows that urbanization is not paving over the Nation's rural areas any more than in the past. Despite claims to the contrary, the amount of U.S. rural land—and level of agricultural production—is not threatened by the present rate of urbanization.

**Trends in Ownership Transfers of Rural Land**, by Gene Wunderlich. 8 pp. May 1990. **Order # AIB-601. \$4.00.** Presents findings of 1988 survey of rural land transfers to determine rate of change of rural real estate ownership.

**Rural Land Transfers in the United States**, by Paul W. Barkley and Gene Wunderlich. 20 pp. October 1989. **Order # AIB-574. \$5.50.** Using a 1988 survey, report shows that 88.4 percent of all rural land transferred each year is agricultural land, but only 4.8 percent of land transferred each year goes to nonfarmers.

**Transfers of Rural Land**, by Gene Wunderlich. 4 pp. July 1989. **Order # AIB-568. \$3.00.** Summarizes a 1988 nationwide survey of rural land transfers which found 4.6 percent of parcels and 3.5 percent of rural acreage changed hands in 1987.

**State Laws Relating to the Ownership of U.S. Land by Aliens and Business Entities, December 31, 1989**, by J. David Aiken. 88 pp. March 1991. **Order # AGES-9111. \$11.00.** A guide for persons interested in determining the way that State laws may affect alien or business-entity ownership of U.S. land.

**Foreign Investment in U.S. Cropland: Some Evidence on the Role of Exchange Rates, Interest Rates, and Returns on Cropland**, by John Kitchen and J. Peter DeBraal. 13 pp. September 1989. **Order # AGES 89-44. \$3.00.** Examines the role of exchange rates, cropland returns, and the real interest rate as determinants of foreign investment in U.S. cropland.

**Foreign Ownership of U.S. Agricultural Land Through December 31, 1990**, by J. Peter DeBraal. 48 pp. April 1991. **Order # AGES 9120. \$8.00.** This annual report to the President and Congress finds that foreigners owned 14.4 million acres of U.S. agricultural land as of December 31, 1990.

**Foreign Ownership of U.S. Agricultural Land Through December 31, 1990: County-Level Data**, by Gertrude S. Butler and J. Peter DeBraal. 132 pp. May 1991. **Order # AGES 9124. \$11.00.** This report, disaggregated to the county level, supplements the national level report, which examines foreign investment in 14.4 million acres of U.S. agricultural land in 1,900 of the 3,041 counties.

**Major Uses of Land in the United States: 1987**, by Arthur B. Daugherty. 35 pp. January 1991. **Order # AER-643. \$8.00.**

Shows that 75 percent of U.S. land area in 1987 was in cropland, grassland pasture and range, and forest land. Land in nonagricultural and miscellaneous other uses, such as parks and wildlife refuges, increased by 3 percent since 1982.

**Agricultural Resources: Agricultural Land Values**, by Roger Hexem and Fred Kuchler. 8 pp. April 1991. **Order # ARS-491. \$4.00.** This annual report finds that U.S. farm real estate values rose 2 percent during 1990, marking the fourth straight increase since their slide in the mid-1980's.

**Returns, Interest Rates, and Cropland Prices in Selected Regions**, by Karl Gertel and Patrick Canning. 18 pp. April 1990. **Order # TB-1778. \$4.00.** Examines how returns to land and real interest rates on farm mortgages affect farmland prices in the Corn Belt, selected winter wheat-growing areas of Kansas, and soybean- and cotton-growing areas of the Mississippi Delta.

**U.S. Grazing Lands: 1950-82**, by Arthur B. Daugherty. 75 pp. January 1989. **Order # SB-771. \$8.00.** Examines grazing trends, demands, resources, and conditions of resources through 1982.

**Metropolitan Growth and Agriculture: Farming in the City's Shadow**, by Ralph E. Heimlich and Douglas H. Brooks. 20 pp. September 1989. **Order # AER-619. \$5.50.** Looks at farming in metro areas.

**Structural Changes in U.S. Farmland**, by Robert C. Reining. 17 pp. June 1990. **Order # AER-617. \$8.00.** Examines changes in the distribution of land, sales, and tenure among farms.

**The Contribution of Speculative Bubbles to Farmland Prices**, by Ababayehu Tegene and Fred Kuchler. 25 pp. July 1990. **Order # TB-1782. \$8.00.** Details tests for the presence of speculative bubbles in farmland prices.

## Conservation and the Conservation Reserve

**A National Policy of No Net Loss of Wetlands: What Do Agricultural Economists Have to Contribute?** ed. by Ralph E. Heimlich. 40 pp. August 1991. **Order # AGES 9149. \$8.00.** This report is based on a 1990 symposium addressing the potential for agricultural economists to contribute to the evolving wetlands policy.

**Conservation and Environmental Issues in Agriculture: An Economic Evaluation of Policy Options**, by David Ervin and others. 62 pp. July 1991. **Order # AGES 9134. \$11.00.** Focuses on reducing potentially adverse effects of agricultural chemicals on ground-water quality, improving surface-water quality, restoring agricultural wetlands, and extending environmental benefits on selected Conservation Reserve Program lands.

**The Conservation Reserve Program: An Economic Assessment**, by C. Edwin Young and C. Tim Osborn. 40 pp. February 1990. **Order # AER-626. \$8.00.** Estimates the net economic benefits of the CRP.

**The Conservation Reserve Program: Enrollment Statistics for Signup Periods 1-9 and Fiscal Year 1989**, by C. Tim Osborn and others. 152 pp. July 1990. **Order # SB-811. \$14.00.** Presents CRP enrollment and accomplishments.

**Natural Resources and Users Benefit from the Conservation Reserve Program**, by Marc O. Ribaud and others. 51 pp. January 1990. **Order # AER-627. \$8.00.** Estimates how retiring cropland benefits natural resources under three scenarios of CRP enrollment.

**Implementing the Conservation Reserve Program: Analysis of Environmental Options**, by Clayton W. Ogg and others. 26 pp. October 1989. **Order # AER-618. \$5.50.** Addresses which types of land to target to gain maximum environmental benefits from the CRP.

**Soil Depletion Estimates: Version 2: A User's Guide to a Personal Computer Model for Estimating Long-Term Onsite Physical and Economic Impacts of Soil Depletion**, by Leonard L. Bull and Daniel E. Kugler. 21 pp. January 1990. **Order # AGES 9005. \$8.00.** Compares shortrun and longrun effects on erosion and economic returns from alternative resource management systems.

**Investments in Soil Conservation and Land Improvements: Factors Explaining Farmers' Decisions**, by Elizabeth G. Nielsen and others. 36 pp. January 1989. **Order # AER-601. \$5.50.** Sheds new light on factors that determine farmers' investments in land improvements, including soil conservation, drainage, and land clearing.

**A Permanent Wetland Reserve: Analysis of a New Approach to Wetland Protection**, by Marc Carey and others. 20 pp. August 1990. **Order # AIB-610. \$4.00.** Discusses the likely geographic distribution of a permanent wetland reserve, crop rotations likely to be affected, and potential easement and restoration costs.

**Productivity and Erodibility of U.S. Cropland**, by Ralph E. Heimlich. 21 pp. January 1989. **Order # AER-604. \$5.50.** Finds that highly erodible farmland may also be highly productive and valuable.

**Soil Conservation PKG-5.** Includes *Investments in Soil Conservation and Land Improvements: Factors Explaining Farmers' Decisions* and *Productivity and Erodibility of U.S. Cropland*. An \$11 value for \$8.00. **Order # PKG-5. \$8.00.**

**Water Quality Benefits from the Conservation Reserve Program**, by Marc O. Ribaud. 30 pp. February 1989. **Order # AER-606. \$5.50.** Looks at the estimated \$3.5 to \$4 billion in water quality benefits that may be generated as a side effect of the Conservation Reserve Program.

**Irrigated Acreage in the Conservation Reserve Program**, by Glenn D. Schaible. 19 pp. July 1989. **Order # AER-610. \$5.50.** Identifies the extent of marginal irrigated acreage enrolled in the CRP through 1987 and the likely amount of such land to be enrolled in the CRP.

**The Conservation Reserve Program and Its Effect on Land Values**, by Robbin Shoemaker. 5 pp. January 1989. **Order # AIB-554. \$3.00.** Uses differences in average bids between signups (enrollment periods) to estimate an upper limit on the CRP's effects on the value of enrolled land.

**Estimating the Offsite Household Damages from Wind Erosion in the Western United States**, by Stephen Piper and Linda K. Lee. 21 pp. June 1989. **Order # AGES 89-26. \$5.50.** Finds that wind-caused soil erosion in some Western

regions increases the need for interior and exterior cleaning, reduces recreational opportunities, and impairs health.

**Soil Erosion: What Effect on Agricultural Productivity?** by Klaus Alt and others. 6 pp. January 1989. **Order # AIB-556. \$3.00.** Estimates the potential losses in agricultural productivity from wind, sheet, and rill erosion.

## Farm Policy

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**Changes in U.S. Agriculture and Emerging Issues for Legislation in the 1990's**, by Kathryn L. Lipton. 12 pp. December 1989. **Order # AIB-584. \$3.00.** Outlines recent changes in the structure and financial picture of U.S. agriculture and reviews topics considered in farm legislation.

**Monetary Policy: The Potential Role for Agricultural Commodity Prices**, by John Kitchen and others. 22 pp. June 1990. **Order # TB-1779. \$8.00.** Presents empirical evidence on the relationships among agricultural and nonagricultural commodity prices, general price level, monetary aggregates, interest rates, industrial production, and the exchange rate.

**Agricultural-Food Policy Review: U.S. Agricultural Policies in a Changing World.** 404 pp. November 1989. **Order # AER-620. \$12.00.** Brings together background information for assessing today's agricultural sector and programs of the Food Security Act of 1985, and for looking at new agricultural, environmental, and rural development strategies.

**A Glossary of Food and Agricultural Policy Terms, 1989**, by Kathryn L. Lipton and Susan L. Pollack. 46 pp. November 1989. **Order # AIB-573. \$5.50.** A guide to many terms associated with food and agricultural policies and programs.

**Computable General Equilibrium Modeling of Agricultural Policies: Documentation of the 30-Sector FPGE GAMS Model of the United States**, by Maureen Kilkenny. 68 pp. June 1991. **Order # AGES 9125. \$11.00.** Explains how U.S. agricultural policies are modeled in the Farm Policy in General Equilibrium, General Algebraic Modeling System, which features: (1) farm programs modeled explicitly rather than by using ad valorem equivalents; (2) how every dollar is spent, received, and accounted for under farm programs; and (3) the idea that farm households earn nonfarm income and nonfarm households own farmland.

**World Food Security: The Effect of U.S. Farm Policy**, by Mark E. Smith. 8 pp. April 1990. **Order # AIB-600. \$4.00.** Defines U.S. world food security and looks at how U.S. domestic farm policies affect it.

**The Basic Mechanisms of Japanese Farm Policy.** 40 pp. February 1990. **Order # MP-1478. \$5.50.** Illustrates the workings of Japanese farm policy, looking at rice price support and beef import restrictions.



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**The 1990 Farm Act and the 1990 Budget Reconciliation Act: How U.S. Farm Policy Mechanisms Will Work Under New Legislation.** 40 pp. December 1990. **Order # MP-1489. \$8.00.** This popular booklet explains the main features of the new 5-year farm law in easy-to-follow pages of illustrative material. These verbal graphics act as a self-programmed instruction method, leading the reader from one point to the next. The booklet works in the same general way as an informal briefing that makes its points step by step with overhead transparencies. Its focus is on program commodities.

## Food

**Food Spending in American Households, 1980-88,** by David M. Smallwood and others. 104 pp. May 1991. **Order # SB-824. \$11.00.** Presents information on trends in household food expenditures for major food groups by selected demographic factors for 1980-88.

**Food Consumption, Prices, and Expenditures, 1968-89,** by Judith Jones Putnam and Jane E. Allshouse. 160 pp. May 1991. **Order # SB-825. \$14.00.** This ERS bestseller presents historical data on food consumption, prices, and expenditures, and U.S. income and population.

**Food Consumption, Prices, and Expenditures, 1968-89 Report and Data Product.** The perennial ERS bestseller, now available in two forms—the report and the electronic data product—is pulled together for you for one low package price. **Order # 91PK01A** (report and four 5.25" disks), **\$49.50.** **Order # 91PK01B** (report and one 3.5" disk), **\$27.00.**

**The Food Marketing Revolution, 1950-90,** by Alden C. Manchester. 8 pp. August 1991. **Order # AIB-627. \$4.00.** Looks at some of the changes in population, lifestyle, income, and attitudes which significantly changed the food marketing system: a boom in supermarkets, greater diversity among supermarkets, fewer but larger wholesaling firms, growth in away-from-home eating, and internationalization of manufacturing.

**Food Cost Review, 1990,** by Denis Dunham. 50 pp. June 1991. **Order # AER-651. \$8.00.** Finds that food prices, as measured by the Consumer Price Index, increased 5.8 percent in 1990, the same as the year before.

**The Food Marketing System In 1990,** by Anthony E. Gallo. 16 pp. August 1991. **Order # AIB-632. \$4.00.** Looks at the food marketing system's strength of recent years, which held through 1990. Profitability from operations increased sharply, despite lower sales.

**U.S. Food Spending and Income: Changes Through the Years,** by Alden Manchester. 19 pp. January 1991. **Order # AIB-618. \$4.00.** Explores relationships that have contributed to increases in U.S. food spending over the years and the decline in food spending's share of personal income.

**Food Marketing Review, 1989-90.** 126 pp. November 1990. **Order # AER-639. \$11.00.** Examines developments in the food marketing system, encompassing all firms servicing the U.S. food supply such as manufacturing, wholesaling, and retailing.

**Food Costs...From Farm to Retail in 1990,** by Denis Dunham. 12 pp. March 1991. **Order # AIB-619. \$4.00.** This annual report looks at how much food costs change, and how much of the consumer food dollar goes to the farmer. Retail food prices in 1990 averaged 5.8 percent above 1989.

**U.S. Demand for Food: A Complete System of Quantity Effects on Prices,** by Kuo S. Huang. 56 pp. July 1991. **Order # TB-1795. \$11.00.** Explores a large-scale U.S. demand system, providing empirical estimates based on 39 food categories and 1 nonfood sector.

**Construction of True Cost of Food Indexes from Estimated Engel Curves,** by William N. Blisard and James R. Blaylock. 40 pp. May 1991. **Order # TB-1787. \$8.00.** Compares estimated indexes of the true cost of food with the Consumer Price Index for households of differing characteristics.

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**Generic Promotion of Agricultural Products: Balancing Producers' and Consumers' Needs,** by William N. Blisard and James R. Blaylock. 6 pp. July 1989. **Order # AIB-565. \$3.00.** Examines policy issues involved in Government-authorized generic advertising programs.

**Data for Food Demand Analysis: Availability, Characteristics, Options**, by Alden C. Manchester. 48 pp. April 1990. **Order # AER-613. \$8.00.** Discusses the availability, characteristics, and derivation of time series for food consumption, food prices, food expenditures, and income for use in food demand analysis.

**Supermarket Prices and Price Differences: City, Firm, and Store-Level Determinants**, by Philip R. Kaufman and Charles R. Handy. 68 pp. December 1989. **Order # TB-1776. \$8.00.** Investigates how much supermarket prices vary, both among firms within cities and among firms in different cities, and the reasons for these differences.

**Effects of Advertising on the Demand for Cheese and Fluid Milk.** NEW. See page 7.

**Effects of Advertising on the Demand for Cheese, January 1982-June 1989**, by James R. Blaylock and William N. Blisard. 32 pp. August 1990. **Order # AGES 9055. \$8.00.** Reports on research to determine what effect advertising has had on the demand for natural and processed cheese.

**The Economics of Safeguarding the U.S. Food Supply**, by Tanya Roberts and Eileen van Ravenswaay. 8 pp. July 1989. **Order # AIB-566. \$3.00.** A look at the economic issues involved in detecting and eliminating contaminants in the food supply and the challenges of incorporating new technology into workable food safety policies.

**Pesticide Residues and Food Safety: Aspects of a Changing Structure.** Ed. by Walter L. Ferguson and Philip Szmedra. 43 pp. February 1991. **Order # AGES 9110. \$8.00.** Explores the Delaney Clause paradox and the Environmental Protection Agency's rationale for altering the method by which pesticides are evaluated.

**Economic Analysis of Electron Accelerators and Cobalt-60 for Irradiating Food**, by Rosanna M. Morrison. 38 pp. June 1989. **Order # TB-1762. \$5.50.** Average costs per pound of irradiating food are similar for the electron accelerator and cobalt-60 irradiators, but initial investment costs can vary by \$1 million.

**Retail to Farm Linkage for a Complete Demand System of Food Commodities**, by Michael K. Wohlgenant and Richard C. Haidacher. 47 pp. December 1989. **Order # TB-1775. \$8.00.** Describes a new conceptual model to estimate the effects of demand, supply, and marketing margins on retail food prices and farm prices.

**U.S. Domestic Food Assistance Program: Lessons from the Past**, by J. William Levedahl and Masao Matsumoto. 16 pp. January 1990. **Order # AIB-570. \$4.00.** Describes current domestic food assistance programs, their relationships to each other, their effects on the food production and marketing sectors, and cost.

## Futures and Options

**Subsidized Put Options as Alternatives to Price Supports**, by Joseph W. Glauber and Mario J. Miranda. 24 pp. December 1989. **Order # TB-1773. \$5.50.** Compares effectiveness of a subsidized put option program to support and stabilize producer income with the current program.

**Effects of a Subsidized Put Option Program and Forward Selling on Farmers' Revenue Risks**, by Gerald Plato. 26 pp. December 1989. **Order # TB-1777. \$5.50.** Compares the effectiveness of the current commodity program for cotton, corn, soybeans, and wheat with the effectiveness of a subsidized put option program for these four commodities.

**Potentials for Substituting Farmers' Use of Futures and Options for Farm Programs**, by Richard G. Heifner and Bruce Wright. 75 pp. December 1989. **Order # AER-628. \$8.00.** Identifies possibilities and quantifies the effects of policy alternatives that involve greater use of forward markets.

**Futures, Options, and Farm Programs: Report to Congress on a Study Mandated by the Food Security Act of 1985**, by Richard G. Heifner and others. 28 pp. January 1990. **Order # AGES-9003. \$8.00.** Looks at how farmers might use futures and options markets, the price stability and income protection attainable through such use, and the effects on the Federal budget.

## Inputs

**Climate Change: Economic Implications for World Agriculture.** NEW. See page 8.

**A Global Analysis of Energy Prices and Agriculture.** NEW. See page 8.

**Capacity Utilization and Measurement of Agricultural Productivity**, by James H. Hauver and others. 40 pp. August 1991. **Order # TB-1798. \$8.00.** Develops a theoretical model of capacity utilization and productivity measurement, estimated for 1949-87, for the U.S. farm sector.

**Estimating Forage Values for Grazing National Forest Lands**, by William F. Hahn and others. 68 pp. October 1989. **Order # AGES 89-51. \$8.00.** Provides estimates of the ability of ranchers to pay for Forest Service grazing.

**Ethanol and U.S. Agriculture**, by Sally Kane and Michael LeBlanc. 8 pp. January 1989. **Order # AIB-559. \$3.00.** Assesses contribution of ethanol production to national objectives on energy, environment, and trade policy.

**Economics of Ethanol Production in the United States**, by Sally M. Kane and John M. Reilly. 20 pp. March 1989. **Order # AER-607. \$5.50.** Evaluates structural characteristics of the ethanol industry, including economies of scale and the relative economics of wet- and dry-mill plants.

**Ethanol PKG-4.** Includes *Ethanol and U.S. Agriculture* and *Economics of Ethanol Production in the United States*. An \$8.50 value for \$6.25. **Order PKG-4. \$6.25.**

**Global Trade in Agricultural Inputs**, by Stan Daberkow and John Parks. 88 pp. September 1990. **Order # SB-812. \$11.00.** Gives historical perspective and statistics on the extent and direction of international trade in manufactured agricultural inputs and agricultural genetic materials.

**The Economic Cost of Unemployment and Underemployment**, by Mervin J. Yetley. 28 pp. May 1989. **Order # AGES 89-17. \$5.50.** Describes the procedure used to estimate the magnitude of lost earnings due to both underemployment and unemployment.



**Economic Returns to Boll Weevil Eradication**, by Gerald A. Carlson and others. 31 pp. September 1989. **Order # AER-621. \$5.50.** Evaluates returns of a pest control program in a large geographical area and the joint efforts of farmers and public agencies, in contrast to pest control efforts by individuals, which can be less successful.

**Agricultural Pesticide Use Trends and Policy Issues**, by Craig D. Osteen and Philip I. Szmedra. 87 pp. September 1989. **Order # AER-622. \$8.00.** Discusses pesticide use trends and factors affecting those trends.

**Elasticities of Fertilizer Demands for Corn in the Short and the Long Run: A Cointegrated and Error-Correcting System**, by Mark Denbaly and Harry Vroomen. 13 pp. August 1991. **Order # AGES 9137. \$4.00.** Estimates a set of dynamic demand models for nitrogen, phosphate, and potash use in corn production, which accounts for nearly half of total U.S. fertilizer nutrient use.

**A Direct Approach for Estimating Nitrogen, Phosphorus, and Land Demands at the Regional Level**, by Harry Vroomen and Bruce Larson. 17 pp. March 1991. **Order # TB-1786. \$8.00.** Finds that estimates of fertilizer and land demands in the Corn Belt reveal profit-maximizing input elasticities of demand.

**Forecasting Retail Fertilizer Prices: A Combined Time-Series Regression Analysis Approach**, by Harry Vroomen. 14 pp. April 1991. **Order # TB-1789. \$8.00.** Combines a regression and time-series analysis to develop a reliably accurate short-run price forecasting model of retail fertilizer prices.

**Fertilizer PKG-1.** Includes two reports: *Fertilizer Use and Price Statistics, 1960-88*, and *Fertilizer Trade Statistics, 1970-88*. A \$13.50 value for \$10.00. **Order # PKG-1. \$10.00.**

**Fertilizer Use and Price Statistics, 1960-88**, by Harry Vroomen. 56 pp. July 1989. **Order # SB-780. \$8.00.** Includes quarterly or semiannual time series for farm fertilizer price indexes, consumption by plant nutrient and major selected products, and statistics on fertilizer use per acre by nutrient in major producing States for corn, cotton, soybeans, and wheat.

**Fertilizer Trade Statistics, 1970-88**, by Harry Vroomen. 28 pp. June 1989. **Order # SB-782. \$5.50.** Includes data on U.S. imports and exports of selected fertilizer materials; world and U.S. imports and exports of nitrogen, phosphate, and potash; and U.S. import origins and export destinations for selected fertilizer materials.

**Seven Farm Input Industries**, ed. by Joseph R. Barse. 125 pp. September 1990. **Order # AER-635. \$11.00.** Describes seven industries that provide resources for farming (fertilizer, pesticides, energy, feed, credit, farm machinery, and hired labor) and explains the situation of the industries during 1966-86.

**Tractor Depreciation and Technical Change: A Case Study of 60-Horsepower Tractors**, by LeRoy Hansen and Hyunok Lee. 20 pp. February 1990. **Order # TB-1772. \$4.00.** Examines physical depreciation and technical change in farm tractors to quantify changes in this type of capital.

**Major World Crop Areas and Climatic Profiles.** 163 pp. **Order # AH-664. \$8.00.** Identifies key U.S. and foreign regions, concentrated production zones, and the normal timing of critical crop stages for 13 major crops.

**Weather in U.S. Agriculture: Monthly Temperature and Precipitation by State and Farm Production Region, 1950-88**, by Lloyd D. Teigen and Florence Singer. 131 pp. November 1989. **Order # SB-789. \$8.00.** Shows monthly temperature and precipitation data by climatic division, in the 48 contiguous States using two alternative sets of weights: geographic areas and harvested cropland areas.

**Effects of the 1988 Drought on Farm Finances**, by Gerald Whittaker. 16 pp. August 1990. **Order # AIB-611. \$4.00.** This evaluation of the 1988 drought's effects on farm finances finds that nine States in the Upper Midwest received 70 percent of Federal crop damage payments and 40 percent of the livestock feed disaster payments made through August 1989.

## Irrigation and Water Use

**Irrigation PKG-3.** Includes *Water Conservation Through Irrigation Technology* and *Agricultural Use of Federally Supplied Irrigation Water, 1979-86*. An \$11 value for \$8.00. **Order PKG-3. \$8.00.**

**Agricultural Use of Federally Supplied Irrigation Water, 1979-86**, by Tom McGuckin and others. 70 pp. December 1989. **Order # SB-788. \$8.00.** Describes trends in cropping patterns and Bureau of Reclamation water use for 1979-86.

**Water Conservation Through Irrigation Technology**, by Donald H. Negri and John J. Hanchar. 12 pp. November 1989. **Order # AIB-576. \$3.00.** Finds that new equipment and advanced water management practices conserve water without sacrificing crop yields.

**Economics of Controlling Sediment from Irrigation: An Idaho Example**, by Richard Magleby and others. 32 pp. September 1989. **Order # AGES 89-33. \$5.50.** Summarizes the results of the evaluation of Idaho's Rock Creek Rural Clean Water Program project, an experimental program aimed at providing experience and insights for future nonpoint pollution control programs.

**Irrigated Agriculture in the United States: State-Level Data**, by John J. Hanchar. 72 pp. January 1989. **Order # SB-767. \$8.00.** Presents previously unreported State-level data on the structure and characteristics of irrigated farms in Arkansas, Louisiana, Florida, and the 17 Western States.

**Factor Demand in Irrigated Agriculture Under Conditions of Restricted Water Supplies**, by Daniel J. Bernardo and Norman K. Whittlesey. 13 pp. July 1989. **Order # TB-1765. \$5.50.** Uses a whole-farm irrigation management model to look at several scenarios of limited water supply.

**Public Policies in Water-Resource Use: Their Effect on Groundwater Mining and Surface-Water Imports**, by C.S. Kim and Michael R. Moore. 35 pp. July 1989. **Order # TB-1764. \$5.50.** Analyzes the effect of public policies on the rate of groundwater use and on the timing of surface water transported into an area to satisfy regional water demand.

**A User's Manual for the Irrigation Production Data System (IPDS)**, by Glenn D. Schaible and others. 68 pp. April 1989. **Order # AGES 89-10. \$8.00.** Documents IPDS, a Lotus 1-2-3 microcomputer database, its structure, data, and computer requirements, and describes other characteristics of the system.

**Economic Benefit Considerations In Selecting Water Quality Projects: Insights from the Rural Clean Water Program**, by Stephen Piper and others. 36 pp. May 1989. **Order # AGES 89-18. \$5.50.** Finds that projects under the Rural Clean Water Program that preserve or improve water quality in a heavily used lake or estuary appear to have the greatest potential for generating net benefits.

**Economic and Technical Adjustments in Irrigation Due to Declining Ground Water**, by William Crosswhite and others. 35 pp. February 1990. **Order # AGES 9018. \$8.00.** Examines changes that irrigators are likely to make as the cost of water rises because of increasing pumping lift and declining well yields in groundwater areas.

**Water Allocation Tradeoffs: Irrigation and Recreation**, by Leroy T. Hansen and Arne Hallam. 21 pp. June 1990. **Order # AER-634. \$8.00.** Develops a procedure for estimating the marginal value of water used for fishing that includes the effects of upstream diversions on all points downstream.

## New Technology

**Public Regulation of Agricultural Biotechnology Field Tests: Economic Implications of Alternative Approaches**, by Bruce A. Larson and Mary K. Knudson. 19 pp. August 1991. **Order # TB-1793. \$8.00.** Examines four general types of regulatory approaches to limit public risk from field testing: a fixed-cost regulatory standard, a marginal-cost standard, a property rule (environmental bond), and a liability rule.

**Consumer Effects of Biotechnology**, by John M. Reilly. 12 pp. December 1989. **Order # AIB-581. \$3.00.** Identifies issues and tradeoffs between concerns raised by biotechnology and the problems people hope biotechnology will solve.

**Biotechnology and Agriculture: Emergence of Bovine Somatotropin (bST)**, by Don Blayney and Richard Fallert. 28 pp. June 1990. **Order # AGES 9037. \$8.00.** Updates and extends a 1987 study of bST and the dairy industry.

**Issues Raised by New Agricultural Technologies: Livestock Growth Hormones**, by Fred Kuchler and John McClelland. 40 pp. April 1989. **Order # AER-608. \$5.50.** Looks at the changes to be expected if all livestock were treated with growth hormones.

**Chemigation: A Technology for the Future?** by Noel Gollehon. 16 pp. July 1990. **Order # AIB-608. \$4.00.** Defines and describes chemigation, the use of an irrigation system to apply chemicals to soils and plants. Also discusses benefits as well as management and resource considerations.

**International Technology Transfer in U.S. Agriculture**, by Margot Anderson. 12 pp. August 1989. **Order # AIB-571. \$3.00.** Discusses implications of and reasons for private sector expansion into agricultural research and technology transfers.

**Implications of New Technology for the Livestock Sector: Animal Growth Hormones.** NEW. See page 7.

**How Technological Progress and Government Programs Influence Agricultural Land Values**, by Robbin Shoemaker. 12 pp. January 1990. **Order # AIB-582. \$4.00.** Examines the mix of forces leading to the longrun increase in land values.

## Rural Issues

**From the Grassroots: Profiles of 103 Rural Self-Development Projects**, by Jan L. Flora and others. 109 pp. April 1991. **Order # AGES 9123. \$11.00.** A look at how some rural localities in the 1980's relied on their own financial and organizational resources to initiate projects generating jobs or income, including community-based development, local business and industry, and tourism and historical development.

**The Role of the Elderly's Income in Rural Development**, by Robert A. Hoppe. 23 pp. January 1991. **Order # RDRR-80. \$8.00.** Examines the elderly's sources of income that could form an economic base for rural development. Finds that income of the elderly can help stabilize local economies and even create jobs.

**An Update: The Diverse Social and Economic Structure of Nonmetropolitan America**, by Thomas F. Hady and Peggy J. Ross. 38 pp. May 1990. **Order # AGES 9036. \$8.00.** Updates a 1979 classification system of nonmetro counties developed by ERS that identified rural counties according to their economic and social structure.

**Effects of Population Growth and County Type on Farm Structure, 1970-80**, by Nora Brooks and others. 20 pp. August 1989. **Order # AGES 89-37. \$5.50.** Examines whether farm structure is affected by change in community characteristics, and if these structural effects differ by the community's metro-nonmetro status.

**Rural America: Economic Performance, 1989**, by J. Norman Reid and Martha Frederick. 24 pp. August 1990. **Order # AIB-609. \$8.00.** Finds that rural America's economy in 1980-89 was more sluggish than the urban economy and continued to undergo industrial restructuring.

**A State-Level Examination of Metro/Nonmetro Per Capita Income Inequality, 1979-87**, by John M. Redman and Thomas D. Rowley. 104 pp. May 1991. **Order # AGES 9108. \$11.00.** Explores on a State-by-State basis the issue of income inequality between the metro and nonmetro populations and among nonmetro counties.

**Patterns of Change in the Rural Economy, 1969-86**, by T. Alexander Majchrowicz. 36 pp. December 1989. **Order # RDRR-73. \$5.50.** Analyzes changes in county data on labor force, employment, and income for metro and nonmetro counties.

**Rural-Urban Continuum Codes for Metro and Nonmetro Counties**, by Margaret A. Butler. 38 pp. April 1990. **Order # AGES 9028. \$8.00.** Provides a one-digit code for each of 10 classifications for all U.S. counties.

**The Economic Well-Being of Nonmetro Children**, by Carolyn C. Rogers. 43 pp. March 1991. **Order # RDRR-82. \$8.00.** Analyzes the economic well-being of children living in families with at least one parent present, by metro-nonmetro residence, using data supplement to the 1988 Current Population Survey.

**Explanatory Guide to the ERS Metro and Nonmetro Labor Force and Income Data Diskette**, by Martha Frederick. 24 pp. August 1989. **Order # AGES 89-39. \$5.50.** Explains the labor force, employment, and income data included on the ERS Metro and Nonmetro Labor Force and Income Data Diskette.



**State-Level Comparisons of Metro and Nonmetro Economic Performance, 1979-86**, by John M. Redman and Thomas D. Rowley. 25 pp. November 1989. **Order # AGES 89-60. \$5.50.** Presents State-level data for 1979-86 on metro and nonmetro population, employment, and income, and describes individual States based on the relative economic performance of their metro and nonmetro areas.

**Jobs and Earnings In Nonmetro Industry**, by Linda M. Ghelfi and T. Alexander Majchrowicz. 12 pp. February 1990. **Order # AIB-589. \$4.00.** Finds that nonmetro job growth accelerated, and real earnings grew, but more slowly in 1987 than in 1982-86.

**Work and Poverty In Metro and Nonmetro Areas**, by Elizabeth S. Morrissey. 19 pp. June 1991. **Order # RDRR-81. \$8.00.** Discusses worker poverty rates, which were 10 percent in nonmetro areas in 1989, compared with 5.7 percent in metro areas.

**Macroeconomic Shocks: Effects on the General Economy, Agricultural Prices, and Rural Unemployment**, by John Kitchen and Elizabeth Mack. 29 pp. August 1991. **Order # AGES 9143. \$8.00.** Features a structural, simultaneous equation model of quarterly frequency based on the Neoclassical-Keynesian Synthesis of macroeconomic theory.

**Macroeconomic Impacts on Nonmetro Unemployment: Preliminary Research**, by Karen S. Hamrick. 19 pp. August 1991. **Order # AGES 9141. \$8.00.** Develops and discusses a model of the nonmetro unemployment rate, and analyzes regional sectors and county type within the nonmetro aggregate.

**Metro/Nonmetro Program Performance Under Title II-A, Job Training Partnership Act**, by John M. Redman. 30 pp. December 1990. **Order # AGES 9072. \$8.00.** Compares metro and nonmetro program performance during program years 1986 and 1987.

**Metro/Nonmetro Funding Allocation Under Title II-A, Job Training Partnership Act**, by John M. Redman. 26 pp. November 1990. **Order # AGES 9071. \$8.00.** The Job Training Partnership Act's (JTPA) Title II program is the main Federal effort to improve employability of the economically disadvantaged.

**Targeting Aid to Distressed Rural Areas: Indicators of Fiscal and Community Well-Being**, by Richard J. Reeder. 54 pp. November 1990. **Order # AGES 9067. \$11.00.** Finds that commonly used indicators of fiscal and community well-being, such as unemployment, tax effort, and population size, disproportionately favor urban areas over rural ones.

**The Rapid Rise in State Per Capita Income Inequality in the 1980's: Sources and Prospects**, by Thomas D. Rowley, John M. Redman, and John Angle. 21 pp. January 1991. **Order # AGES-9104. \$8.00.** Finds that State per capita incomes diverged beginning in 1979, reversing a 50-year trend.

**Status of the Nonmetro Labor Force, 1987**, by Alan R. Bird. 26 pp. September 1990. **Order # RDRR-79. \$8.00.** Develops indicators of labor market conditions and uses them to show that nonmetro workers faced generally more unfavorable employment conditions than metro workers in 1987.

**Employment Stability Among Workers: A Case Study from Nine Nonmetro Kentucky Counties, 1979**, by Donald K. Larson. 26 pp. July 1989. **Order # AGES 89-31. \$5.50.** Shows

that even during a period of rapid growth (1974-79) in south central Kentucky, employment was disrupted for some workers.

**Political Leaders as Entrepreneurs? Economic Development In Small Communities**, by Alvin D. Sokolow and Julie Spezia. 33 pp. October 1990. **Order # RDRR-77. \$8.00.** Reviews 17 successful cases of smalltown development, which compare project initiators and their actions, and suggest several critical differences between local political leadership and entrepreneurship.

**Entrepreneurship Theories and Their Use in Rural Development: An Annotated Bibliography**, by Martha Frederick and Celeste A. Long. 88 pp. April 1989. **Order # BLA-74. \$8.00.** A guide to theoretical material and to more recent empirical work on entrepreneurs in different economic climates.

**Survival and Growth of Independent Firms and Corporate Affiliates in Metro and Nonmetro America**, by James P. Miller. 24 pp. February 1990. **Order # RDRR-74. \$8.00.** Reveals that local, independent firms survived better and grew faster than corporate affiliates in nonmetro areas.

**Nonmetro Development PKG-2. Includes Survival and Growth of Independent Firms in Metro and Nonmetro America and The Importance of Transfer Payments in Nonmetro America.** An \$11 value for \$8.00. **Order PKG-2. \$8.00.**

**Financial Market Intervention as a Rural Development Strategy**. 93 pp. December 1990. **Order # AGES-9070. \$11.00.** Describes and assesses the effectiveness of the financial system currently serving rural America.

**Infrastructure Investment and Economic Development: Rural Strategies for the 1990's**. 81 pp. December 1990. **Order # AGES-9069. \$11.00.** Explores the effects of investing in transportation, telecommunications, and water and wastewater infrastructure to improve rural economies.

**Assessment of Wastewater Treatment Facilities in Small Communities**, by Barry Ryan. 19 pp. August 1991. **Order # AGES 9140. \$8.00.** Examines the condition of wastewater treatment facilities in communities of no more than 10,000 people.

**Public Water Supply in Rural Communities: Results from the National Rural Community Facilities Assessment Study**, by Thomas F. Stinson and others. 50 pp. January 1989. **Order # AGES 89-4. \$5.50.** Presents estimates on public water facilities serving rural communities.

**Effects of Fiscal Policy on Agriculture and the Rural Economy**, by John Kitchen and David Orden. 24 pp. June 1991. **Order # AGES 9131. \$8.00.** Explores preliminary ideas for addressing questions of fiscal policy effects on agriculture and the rural economy.

**Geographic Distribution of Federal Funds in 1985**, by Elliott J. Dubin. 109 pp. March 1989. **Order # AGES 89-7. \$8.00.** Examines the metro/nonmetro distribution of Federal funds in fiscal year 1985.

**The Importance of Transfer Payments in Nonmetro America**, by Linda Ghelfi and Robert Hoppe. 8 pp. March 1989. **Order # AIB-562. \$3.00.** Finds that transfer payments are a growing source of income in nonmetro areas, accounting for 18.7 percent of annual personal income in 1986.

**The Drought of 1988: Effects on the U.S. Food and Fiber Sector and on Rural Communities.** 53 pp. January 1989. **Order # AGES 89-8. \$5.50.** Presents data and information from surveys of farmers conducted during 1988.

**Education and Rural Economic Development: Strategies for the 1990's.** NEW. See page 8.

**Local Response to Federal Budget Policies: A Study of Nonmetropolitan Communities In Ohio,** by Philip A. Russo, Jr., and others. 41 pp. June 1989. **Order # AGES 89-24. \$5.50.** Investigates how declining Federal funding, 1981-86, affected six nonmetro counties and six small cities in Ohio.

**Helping Those Who Venture: Iowa's Rural Economic Development Measures,** by Don F. Hadwiger. 38 pp. September 1990. **Order # AGES 9047. \$8.00.** Finds that a quarter of Iowa's State budget encompasses measures aimed at rural development.

### U.S. Trade

**Foreign Agricultural Trade of the United States, Calendar Year 1989: Supplementary Tables,** by Mary L. Fant. 296 pp. March 1991. **Order # AGES-9112. \$14.00.** Presents statistical summaries of U.S. foreign trade in agricultural products by country during calendar years 1988 and 1989. Shows exports and imports valued at more than \$1 million.

**Value-Weighted Quantity Indices of Exports for High-Value Processed Agricultural Products,** by Larry G. Traub. 368 pp. August 1991. **Order # SB-827. \$14.00.** Finds that trade in high-value processed agricultural products doubled for the United States during 1961-86 and climbed throughout the rest of the world.

**U.S. Imports of Fruits and Vegetables Under Plant Quarantine Regulations, Fiscal Year 1988,** by Joan Pearrow. 51 pp. July 1991. **Order # AGES 9135. \$8.00.** Summarizes imports of over 200 commodities by country of origin and port of entry from October 1, 1987, through September 30, 1988.

**Agricultural Export Programs: Background for 1990 Farm Legislation,** by Karen Z. Ackerman and Mark E. Smith. 66 pp. May 1990. **Order # AGES 9033. \$11.00.** Summarizes the major U.S. export programs since World War II.

**Export Demand for U.S. Corn, Soybeans, and Wheat,** by Cecil W. Davison and Carlos A. Arnade. 30 pp. January 1991. **Order # TB-1784. \$8.00.** Identifies the major markets for U.S. exports of corn, soybeans, and wheat, and estimates price and income elasticities for those markets to broaden the understanding of factors that affect the demand for U.S. exports.

**Foreign Aid's Effect on U.S. Farm Exports: Benefits or Penalties?** by Alain de Janvry and others. 52 pp. November 1989. **Order # FAER-238. \$5.50.** Identifies conditions that increase aid-trade complementarity and implications for formulating and implementing development policy.

**The Export Enhancement Program: How Has It Affected Wheat Exports?** by Ann Seitzinger and Philip Paarlberg. 12 pp. December 1989. **Order # AIB-575. \$3.00.** Finds that the Export Enhancement Program raised U.S. wheat export volume, prices, and gross export revenues.

**Structural Econometric Model of the World Wheat Market,** by Kenneth W. Bailey. 63 pp. June 1989. **Order # TB-1763. \$8.00.** Presents an econometric model to assess the effect of changing global policies and other conditions on world wheat trade and changes in U.S. farm programs on the rest of the world and on U.S. export levels.

**Evaluation of Export Enhancement, Dollar Depreciation, and Loan Rate Reduction for Wheat,** by Stephen L. Haley. 32 pp. April 1989. **Order # AGES 89-6. \$5.50.** Finds that U.S. export enhancement bonuses may have increased the U.S. wheat price between 7 and 22 percent, U.S. wheat export volume between 10 and 31 percent, and U.S. wheat export revenue between 18 and 61 percent for the 1986/87 crop year.

**Why Did U.S. Wheat Exports Expand?** by Kenneth W. Bailey. 8 pp. May 1989. **Order # AIB-564. \$3.00.** Identifies factors that expanded recent wheat exports, finding that policy effectiveness changes as market conditions change.

**Dockage and Foreign Material in the Grading Standards for Wheat Exports,** by Stephanie A. Mercier. 23 pp. December 1989. **Order # AGES 89-68. \$8.00.** Focuses on economic effects that a new grading standard would have on wheat producers, handlers, and exporters.

**Apple Import Demand: Four Markets for U.S. Fresh Apples,** by Amy L. Sparks, James L. Seale, Jr., and Boyd M. Buxton. 15 pp. December 1990. **Order # AER-641. \$8.00.** Gives the results of an econometric analysis of four U.S. overseas apple markets and explores competition in Canada, Hong Kong, Singapore, and the United Kingdom.

**U.S. Markets for Caribbean Basin Fruits and Vegetables: Selected Characteristics for 17 Fresh and Frozen Imports, 1975-87,** by Richard N. Brown, Jr., and Nydia R. Suarez. 200 pp. March 1991. **Order # SB-821. \$14.00.** Provides annual and monthly overviews and a database from 1975-87 for U.S. production, trade, consumption, and prices of 15 fresh fruits and vegetables and 2 frozen vegetables.

**U.S. Agricultural Trade with the Developed Pacific Rim, 1968-88,** by Wilma Davis and others. 80 pp. May 1990. **Order # AGES 9035. \$11.00.** This statistical compendium presents data on U.S. agricultural exports and imports with the developed Pacific Rim countries.

**Exchange Rates and U.S. Agricultural Trade,** by Mathew D. Shane. 12 pp. January 1990. **Order # AIB-585. \$4.00.** Finds that exchange rates are now the single most important variable in determining the economic environment for agricultural trade.

**Trade and Development: Impact of Foreign Aid on U.S. Agriculture,** edited by Gary Vocke. 69 pp. June 1990. **Order # AGES 9044. \$11.00.** This report reviews the role of various types of foreign assistance and international factors influencing their effectiveness in promoting economic development.

**Developing Countries' High-Value Agricultural Trade: Implications for U.S. Exports,** by Mary Burfisher and Margaret Missiaen. 14 pp. September 1990. **Order # AIB-615. \$4.00.** Finds that developing countries expanded their high-value product (HVP) exports to the United States during the 1980's, while remaining as only minor markets for U.S. HVP exports.



**Factor Intensity of U.S. Agricultural Trade**, by Darryl S. Wills and Chinkook Lee. 36 pp. August 1990. **Order # AER-637. \$8.00.** Reviews the commodity composition of U.S. agricultural exports.

**Measuring the Effectiveness of the Export Enhancement Program for Poultry**, by Stephen L. Haley. 23 pp. March 1990. **Order # AGES 9016. \$8.00.** Examines the economic effects of the EEP for poultry meat for 1987.

**Economywide Implications of Agricultural Liberalization in the United States**, by Maureen Kilkenny and Sherman Robinson. 16 pp. January 1990. **Order # AGES 9008. \$4.00.** Uses a 10-sector computable general equilibrium model to show how unilateral and multilateral changes in agricultural policy will affect the overall economy.

## Trade and Related Issues

**Bibliography of Research on Agricultural Trade Policy Reform.** NEW. See page 8.

**Sectoral Effects of a World Oil Price Shock: Economywide Linkages to the Agricultural Sector.** NEW. See page 8.

**A Survey of Theoretical and Empirical Literature Related to Export Assistance**, by Ann Hillberg Seitzinger and Philip L. Paarlberg. 32 pp. August 1989. **Order # AGES 89-34. \$5.50.** Examines the literature regarding global and targeted export assistance, including cash and payment-in-kind.

**Global Food Assessment.** 64pp. November 1990. **Order # GFA-1. \$11.00.** Assesses both short-term (2 years), and longer term issues affecting food aid needs. Contains estimates for 1990/91 and 1991/92 for 55 developing countries based on USDA data as of September 12, 1990, and data from other sources.

**Food Aid: Motivation and Allocation Criteria**, by Shahla Shapouri and Margaret Missiaen. 44 pp. February 1990. **Order # FAER-240. \$8.00.** Evaluates the motives that affect food aid policies and distribution, including a review of food aid from the United States, the European Community, and Canada.

**Competitiveness and Protection in World Agriculture**, by Thomas L. Vollrath. 12 pp. July 1989. **Order # AIB-567. \$3.00.** Explores what agricultural competitiveness means by using three different measures: market share, relative export advantage, and revealed competitiveness.

**Agricultural Policy, Trade, Economic Growth, and Development.** 191 pp. May 1989. **Order # AGES 89-19. \$8.00.** An overview of the salient domestic agricultural policies that have affected trade, development, and growth in Malawi, Kenya, Thailand, Malaysia, Ecuador, and Guatemala.

**Exporting Processed Instead of Raw Agricultural Products**, by Gerald Schluter and William Edmondson. 20 pp. November 1989. **Order # AGES 89-58. \$5.50.** Examines the national output, income, and employment effects for selected raw commodity/processed commodity combinations.

**Price Transmission Elasticities in the Trade Liberalization (TLIB) Database**, by John Sullivan. 22 pp. April 1990. **Order # AGES 9034. \$8.00.** Documents price transmission elasticities available in ERS' TLIB database.

**Agricultural Trade, Agreements, and Disputes in the Western Hemisphere**, by Nicole Ballenger and others. 43 pp. June 1989. **Order # AGES 89-28. \$5.50.** Assesses major bilateral and multilateral arrangements guiding agricultural trade relations among Western Hemisphere countries.

**The CPPA Model-Builder: Technical Structure and Programmed Options in Version 1.3**, by Kim Hjort and Pierre Van Peteghem. 108 pp. August 1991. **Order # AGES 9144. \$11.00.** Describes CPPA (Country Projections and Policy Analysis), a spreadsheet-based, program-driven system that facilitates the specification of price linkages and economic relationships in agricultural markets.

**Foreign Debt, Capital Formation, and Debtor Behavior**, by Carlos Arnade and others. 32 pp. July 1989. **Order # TB-1767. \$5.50.** Finds that problem debtor countries, with over \$10 billion in external debt, used their borrowed funds to invest less and consume more than a comparable group of debtors without repayment problems.

**Testing for the Impact of Inflation on Import Demand Functions**, by Carlos Arnade and Praveen Dixit. 20 pp. January 1989. **Order # AGES 89-3. \$5.50.** Suggests inflation does influence importers' demand, contrary to standard assumptions.

**The Specification, Estimation, and Simulation of a Small Global Macroeconomic Model**, by James R. Malley. 24 pp. March 1990. **Order # AGES 9011. \$8.00.** Describes the structure and simulation properties of a small global macroeconomic model (SGM).

**Agricultural Trade Liberalization and Developing Countries**, by Barry Krissoff and others. 46 pp. May 1990. **Order # AGES 9042. \$8.00.** Discusses some of the potential effects of agricultural trade liberalization on the economies of developing nations, featuring a static global agricultural net trade model that contains 36 countries or regions and 22 commodities.

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**U.S. Vegetable and Melon Production.** Characteristics of farms and farm operators, by value of total crop sales, for farms reporting production of 57 vegetables and melons in the 1987 Census of Agriculture. These special tabulations from the Census data show, for each commodity, number of farms and land use, type of organization, operator characteristics, crop acreages, market value of products sold, other farm-related income, input use, and production expenses. U.S., regional, and State data are included. Doyle Johnson, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1), 3.5" disks], (9/91).

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**WATI/TS-VIEW.** This menu-driven software system displays time series graphs for 1961-89 of the crop, livestock, trade, and macroeconomic indicators in the *World Agriculture: Trends and Indicators* system. Data are included for the world, 14 geographic regions, EC-12, and 142 individual countries. The program fits regression trendlines, displays tables of the data, and downloads subsets of the data in spreadsheet-readable files. A 20-page manual is included.

**NOTE:** WATI/TS-VIEW is shipped in archived files that expand to 4.7 MB upon installation. The program requires an IBM or compatible personal computer, MS-DOS or PC-DOS, 330 KB of available RAM, and at least 650 KB of hard disk storage. Graphics support is provided for VGA, EGSA, MCGA, CGA, and Hercules monochrome hardware. Francis Urban, Tamara Karas, or Phil Brent, ERS, 202-219-0705. [Three 3.5" disks], (8/91).

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## Data Products

**High-Value Export Indexes.** Value-weighted quantity indexes of exports of food, feed, tobacco, and 24 product/commodity classes. Indexes are reported for the world, 7 economic development groups, 13 geographic regions, and 149 countries for 1961-86. Larry Traub, ERS, 202-219-0716. [Lotus 1-2-3 (.WK1), two 3.5" disks], (8/91).  
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**Farm Sector Balance Sheet by Sales Class.** U.S. and State data (including farm households) on farm assets, real estate and nonreal estate debt, equity, total claims, and debt-to-asset ratios by sales class, 1960-89. Similar data excluding farm households are included for 1974-89. Kenneth Erickson, ERS, 202-219-0798. [Lotus 1-2-3 (.WK1), one 3.5" disk], (11/91).  
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### Recently Revised

**Farm Real Estate Values.** U.S. and State data on the value of land and buildings per acre and per farm, and real estate debt and taxes by year, 1950-91. John Jones, ERS, 202-219-0428. [Lotus 1-2-3 (.WK1), one 5.25" disk], (9/91).  
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**Farm Machinery Statistics.** Annual and monthly data, 1944-90, on U.S. production, shipments, industry and farm inventories, farm expenditures, and other financial information. Marlow Vesterby, ERS, 202-219-0422. [Lotus 1-2-3 (.WKS), two 5.25" disks], (9/91).  
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**Sugar and Sweetener Yearbook.** U.S. and world data, 1975-90, on acreage, yield, and production of sugar crops; production, trade, supply and use, and prices for sugar; and supply and use data for caloric and non-caloric sweeteners. Peter Buzzanell, ERS, 202-219-0886. [Lotus 1-2-3 (.WK1), one 3.5" disk], (10/91).  
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**Dairy Yearbook.** Annual data on the production, supply, and use of milk and manufacturing dairy products, 1965-90. Also includes wholesale and retail price indexes, prices received by farmers, milk production costs, and data on regional shares of U.S. milk production. Sara Short, ERS, 202-219-0769. [Lotus 1-2-3 (.WK1), one 5.25" disk], (9/91).  
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## Crops

**Feed Grain Data by States, 1949-86.** Acreage planted and harvested, yield, production, quantity used on farms and sold, season average price, value of production, and value of sales for corn, grain sorghum, oats, and barley. Letricia Womack, ERS, 202-219-0689. [Lotus 1-2-3 (.WKS), four 5.25" disks], (7/87).  
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**Feed Grain Yearbook.** U.S. feed grain acreage, production, supply, trade, use, and prices for 1950-90. Also includes data for hay and feedstuffs. Larry Van Meir, ERS, 202-219-0840. [Lotus 1-2-3 (.WK1), three 5.25" disks], (3/91).  
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**Wheat Yearbook.** U.S. wheat acreage, production, supply, trade, use, and prices for 1960-90. Includes data for wheat flour and rye. Ed Allen, ERS, 202-219-0840. [Lotus 1-2-3 (.WK1), three 5.25" disks], (3/91).  
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**Cotton & Wool Yearbook.** U.S. cotton and wool production, supply, use, trade, and price statistics, 1960-90. Includes domestic and world price series and indexes; State cotton acreage, yield, and production data; and conversions of U.S. textile imports and exports to raw fiber equivalents. Bob Skinner, ERS, 202-219-0840. [Lotus 1-2-3 (.WK1), one 5.25" disk], (10/90).  
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## Data Products

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**U.S. Live Cattle Imports.** Monthly data, 1970-90, on imports from Mexico and Canada by weight class and breeding animals by type. Data are arranged by tariff schedule classification, quantity, and value. Linda Bailey or Shayle Shagam, ERS, 202-219-0714. [Lotus 1-2-3 (.WK1), two 5.25" disks], (4/91).  
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## Specialty Agriculture

**Dry Beans & Peas.** Production and acreage data, 1970-88; monthly imports, exports, and weekly price data for 1981-88. Gary Lucier, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1), three 5.25" disks], (11/90).  
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**Fresh Fruit Prices and Marketing Spreads.** Retail values, wholesale and shipping point prices, transportation charges, and market price spreads for eight fresh fruits. Marketing season monthly data for 1985-90. Joan Pearrow, ERS, 202-219-0883. [Lotus 1-2-3 (.WK1), two 5.25" disks], (2/91).  
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**Fresh Vegetable Prices & Marketing Spreads, 1985-90.** Monthly and seasonal prices, spreads, and transportation charges for 11 vegetables sold in the Northeast, North Central, South, and West marketing regions, and in New York City and Baltimore starting with the 1984-85 marketing season. Joan Pearrow, ERS, 202-219-0883. [Lotus 1-2-3 (.WK1), two 5.25" disks], (2/91).  
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**Plant Protection & Quarantine Import Data.** U.S. imports of fresh fruit and vegetables under the Plant Quarantine and Inspection Program (PQ280) of APHIS. Includes monthly and annual data by commodity and by country of origin and port of entry for 1983-88. Joan Pearrow, ERS, 202-219-0883. [ASCII, two 3.5" disks], (7/91).  
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**Vegetable Yearbook.** Production, acreage, value, prices, imports, exports, and per capita utilization for major fresh market and processed vegetables, 1970-90. Also includes

data for potatoes, sweetpotatoes, dry beans and peas, and fresh and processed mushrooms. Gary Lucier, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1), three 5.25" disks], (11/90).  
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**Tobacco Industry.** Production, supply, trade, disappearance, and prices for tobacco and tobacco products, 1950-87. Includes acreage, yield, and production by type, 1950-87, and selected data on world production and trade. Verner Grise, ERS, 202-219-0890. [Lotus 1-2-3 (.WK1), one 5.25" disk], (3/89).  
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**Fruit and Nut Yearbook.** Annual data, 1970-89, on production, trade, supply and utilization, prices, and value of production for fruit and nuts including citrus, other tree fruits, grapes, and other small fruits. Also includes data on supply and utilization of processed fruit and fruit juices. Wynne Napper, ERS, 202-219-0885. [Lotus 1-2-3 (.WK1), four 5.25" disks], (10/90).  
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**U.S. Watermelon Industry.** Includes time series data on U.S. and State acreage, yield, production, prices and value; per capita consumption; U.S. trade; world production and trade; and other data on truck freight charges, irrigation, and characteristics of watermelon farms. Gary Lucier, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1), two 5.25" disks], (4/91).  
**Order # 89029** **\$35**

**Greenhouse and Nursery Statistics, 1960-88.** A comprehensive database covering production, supply, consumption, prices, and sales of floricultural and environmental horticultural products. Includes U.S. and State data and world trade data. Doyle Johnson, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1)], (7/90).  
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**Sugar Statistical Compendium.** A comprehensive database of U.S. beet and cane sugar statistics including sugar production and consumption, 1950-90; imports and exports, 1970-90; and prices 1960-90. Also includes regional and State data on sugarbeet, sugarcane, and sugar production, 1970-90. Peter Buzzanell or William Moore, ERS, 202-219-0886. [Lotus 1-2-3 (.WK1), one 3.5" disk], (10/91).  
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**Potato Statistics.** U.S. and State data, 1949-89, on potato acreage, production, value, and use. Also includes U.S. data on prices, price spreads, and consumer and producer price indexes; stocks of fresh and processed potatoes; and trade in potatoes and potato products. Gary Lucier, ERS, 202-219-0884. [Lotus 1-2-3 (.WK1), two 3.5" disks], (6/91).  
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## Food

**Food, Beverages, and Tobacco Expenditures.** U.S. and 46 countries, 1970-88; also gross domestic product, disposable personal income, consumption expenditures, and net savings. Larry Traub, ERS, 202-219-0705. [Lotus 1-2-3 (.WK1)], (4/91).  
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## Data Products

**Food Consumption.** Per capita food consumption by commodity and commodity group, 1966-89; supply and use by commodity and commodity group, 1966-89; and food expenditures, 1869-1990. Judith Putnam, ERS, 202-219-0870. [Lotus 1-2-3 (.WK1)], (5/91).

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Detailed data on household food expenditures by major food groups and by household demographic characteristics. Includes data on food price trends and percent of households purchasing selected food items in a week. David Smallwood, ERS, 202-219-0864. [Lotus 1-2-3 (.WK1)], (4/91).

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**Americans and Food.** This computer quiz contains 54 questions and answers on food-related topics ranging from fish consumption to fast food. The easy-to-understand questions and answers make the quiz an excellent teaching tool and presentation aid. **NOTE:** Requires MS/PC-DOS Version 3.2 or 3.3 and 640 KB of memory. Kathryn Lipton, ERS, 202-219-0880. [One 5.25" disk], (1/91).

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**U.S. Food Expenditures.** Annual data, 1869-1989, on total expenditures for food and alcoholic beverages. Includes series on food expenditures for food away from home, at retail stores and other establishments, and by type of income. Alden Manchester, ERS, 202-219-0880. [Lotus 1-2-3 (.WK1), one 5.25" disk], (1/91).

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**World Red Meat and Poultry Consumption.** Annual data, 1975-91, on beef and veal, pork, lamb, mutton, goat, and total poultry consumption, total and per capita, for selected countries and regions. Linda Bailey or Shayle Shagam, ERS, 202-219-0714. [Lotus 1-2-3 (.WK1), one 5.25" disk], (1/91).

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## Inputs

**Farm Employment and Wage Rates.** U.S. and State/regional statistics on number of workers, average hours worked, and wage rates 1974-90. State/regional wage rates by quarter are shown for 1974-90 and wage rates by economic class and type of farm are included for 1987-90. Tom Kurtz, NASS, 202-720-3228. [Lotus 1-2-3 (.WK1), two 3.5" disks], (5/91).

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**Agricultural Chemical Usage: 1990 Field Crops.** State, regional, and U.S. fertilizer and pesticide use data for corn, soybeans, cotton, rice, wheat, and fall potatoes. Includes pesticide use by active ingredient, application rates, and acres treated. Ron Tauchen, NASS, 202-690-3461. [Lotus 1-2-3 (.WK1), one 5.25" disk], (6/91).

**Order # 91009Z** \$25

## Land, Water, & Conservation

**Value of Land & Buildings Per Acre.** County and State data from the Census of Agriculture, 1850-1987. John Jones, ERS, 202-219-0428. [Lotus 1-2-3 (.WK1), three 5.25" disks], (10/89).

**Order # 87012** \$45

**Farm and Ranch Irrigation, 1984.** Tables 1 through 23 from the related Census report on water sources and use, irrigation technology, and expenditures. John Hostetter, ERS, 202-219-0410. [Lotus 1-2-3 (.WK1), two 5.25" disks], (8/86).

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**Foreign-owned Agricultural Land.** Foreign investment by States and counties as of December 31, 1990. Includes data from over 13,000 reports filed under the Alien Foreign Investment Disclosure Act of 1978. J. Peter DeBraal, ERS, 202-219-0425. [EBCDIC, 1 tape], (3/91).

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**Dynamics of Land Use Change, 1960's.** Paired sample point data of land use change in 53 fast population growth counties in the United States. Data cover 12 major land uses including agricultural and urban. Marlow Vesterby, ERS, 202-219-0422. [Lotus 1-2-3 (.WK1), two 5.25" disks], (5/88).

**Order # 88017** \$35

**Land Use Change, 1970's.** Paired sample point data of land use change in 135 fast population growth, 36 cropland loss, and 20 cropland gain counties in the United States. Data cover 15 major land uses including agricultural, forest, urban, and wetlands. Marlow Vesterby, ERS, 202-219-0422. [dBase III, 5.25" disks], (7/88).

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**Major Land Uses.** State, regional, and national estimates of 15 major land uses including cropland, pasture and grazing, forest, and urban uses for Census of Agriculture years between 1945 and 1987. Ken Krupa/Arthur Daugherty, ERS, 202-219-0422. [Lotus 1-2-3 (.WK1), one 5.25" disk], (11/90).

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**Irrigation Production Data System.** A comprehensive analysis system for irrigated and dryland crop production by State and farm production region. Includes data for 11 crops on acreage, yield, price, input use, costs, returns, and breakeven statistics. **NOTE:** Requires 30 MB disk storage and 1.5 MB total memory. Glenn Schaible, ERS, 202-219-0410. [Lotus 1-2-3 (.WK1), three 3.5" disks], (4/89).

**Order # 89023** \$45

**Conservation Reserve Program Statistics.** Number of contracts and acres enrolled by fiscal year 1986-89 and signup period 1-9. Includes average rental rates, acres enrolled by level of erosion, conservation treatments applied, and cost share data. Tim Osborn, ERS, 202-219-0403. [ASCII, Five 5.25" disks], (9/90).

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## Data Products

**Production and Efficiency Statistics.** U.S. and State indexes of farm input use, production, and efficiency by enterprise group, 1947-89. Includes data on cropland used for crops, farm machinery and tractor use, fertilizer use, labor use, and crop acreages harvested. James Hauver, ERS, 202-219-0313. [Lotus 1-2-3 (.WK1), two 5.25" disks], (4/91).  
**Order # 89026** **\$35**

**Agricultural Water Use.** Statistics on agricultural use of federally supplied irrigation water, by crop and region, for 1979-86. Data are reported for Bureau of Reclamation lands receiving full and supplemental water service include net water supply, water deliveries, acreage irrigated, and acres irrigated by drip, sprinkler, and gravity systems. Michael Moore, ERS, 202-219-0410. [Lotus 1-2-3 (.WK1), one 5.25" disk], (11/89).  
**Order # 90001** **\$25**

**Soil Depletion Estimates Model.** This model computes comparisons of shorrun and longrun impacts on erosion and economic returns from alternative resource management systems. The user may specify site-specific soil characteristics, tillage practices, and cropping systems.  
**NOTE:** Requires DOS 2.10 or higher and a math co-processor. Leonard Bull, ERS, 202-219-0456. [One 5.25" disk], (12/89).  
**Order # 90004** **\$25**

**Cash Rents for U.S. Farmland.** Cash rents per acre for farms, cropland, and pasture (Eastern States, 1960-89), and cash rents per acre for irrigated cropland, nonirrigated cropland, and pasture (Western States, 1984-89). Cattle grazing rates on privately owned nonirrigated land for the 17 Western States, 1960-88, are included. John Jones, ERS, 202-219-0428. [Lotus 1-2-3 (.WK1), one 5.25" disk], (9/90).  
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### Farm Sector Economics

**National Financial Summary, 1945-89.** Includes farm income, cash receipts by components, production expenses, capital expenditures, off-farm income, nonmoney and farm-related income components. Includes U.S. balance sheet data, 1945-88, and related data on assets and debt. Linda Farmer, ERS, 202-219-0804. [Lotus 1-2-3 (.WK1)], (12/90).

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**State Financial Summary.** Includes State-level farm income and balance sheet accounts for 1985-89. Also includes cash receipts by commodity, government payments, and related data. Linda Farmer, ERS, 202-219-0804. [Lotus 1-2-3 (.WK1)], (1/91).

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**Cash Receipts.** State data on cash receipts for the 25 leading commodities, 1960-89. Includes State rankings by commodity. Bob Williams, ERS, 202-219-0804. [Lotus 1-2-3 (.WK1), one 3.5" disk], (6/91).  
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**U.S. Monthly Cash Receipts, 1960-87.** Monthly cash receipts data for 12 major commodity groups plus totals for crops, livestock and products, and all commodities. Bob Williams, ERS, 202-219-0804. [Lotus 1-2-3 (.WK1), one 5.25" disk], (3/90).  
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**U.S. Farm Income.** Historical farm income statistics, 1910-89. Reports gross and net farm income, net cash income, cash receipts, and related data. Cheryl Johnson, ERS, 202-219-0807. [Lotus 1-2-3 (.WK1), two 5.25" disks], (5/90).  
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**Structural Change in U.S. Agriculture.** Number of farms, land in farms, land use, farm income, and commodity sales tabulated by sales classes adjusted for inflation, 1969-82. Includes data for 14 States in three regions. Ralph Heimlich, ERS, 202-219-0422. [Lotus 1-2-3 (.WK1), two 5.25" disks], (5/90).  
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**Agricultural Commodity Output.** U.S. and State data for the 17 agricultural sectors of 1982 U.S. input-output accounts. These data are completely additive to the published national tables for the agricultural sector. William Edmondson, ERS, 202-219-0785. [Lotus 1-2-3 (Release 2 and Release 3), one 5.25" disk], (6/91).  
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### Rural Affairs

**Rural Development.** Extensive data on employment, income, labor force, and unemployment presented by metro and nonmetro portions of regions, States, and counties grouped by metro status and economic base. Martha Frederick, ERS, 202-219-0538. [Lotus 1-2-3 (.WK1)], (10/90).  
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**Geographic Distribution of Federal Funds, 1985.** Traces Federal funds to counties and States by program, type of payment, and function. Counties are identified by region, metro/nonmetro status, and social and economic characteristics. Rick Reeder, ERS, 202-219-0544. [EBCDIC, 1 tape], (9/88).  
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**Rural Public Water Systems.** Data from a recent report on public water supplies in rural communities; data are from a 1980 sample of 520 communities. Includes data on sources, testing, treatment, transmission, and distribution of public water supplies and finances of public water providers. Norman Reid, ERS, 202-219-0520. [Lotus 1-2-3 (.WK1), two 5.25" disks], (2/89).  
**Order # 89013** **\$35**

### Trade

**PL480 & Other Concessional U.S. Exports.** Volume and value data, 1985-89, by commodity and country for agricultural exports under the Food for Peace and other food-aid programs. Mark Smith, ERS, 202-219-0821. [Lotus 1-2-3 (.WK1), one 3.5" disk], (2/91).  
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## Data Products

**Caribbean Fruits & Vegetables.** Market characteristics for U.S. imports of selected fruits and vegetables from the Caribbean, Central America, and Mexico for 1975-87. Includes annual and monthly supply, use, and trade data as well as monthly wholesale prices for New York and Chicago. Dick Brown, ERS, 202-219-0680. [Lotus 1-2-3 (.WK1)], (1/91).

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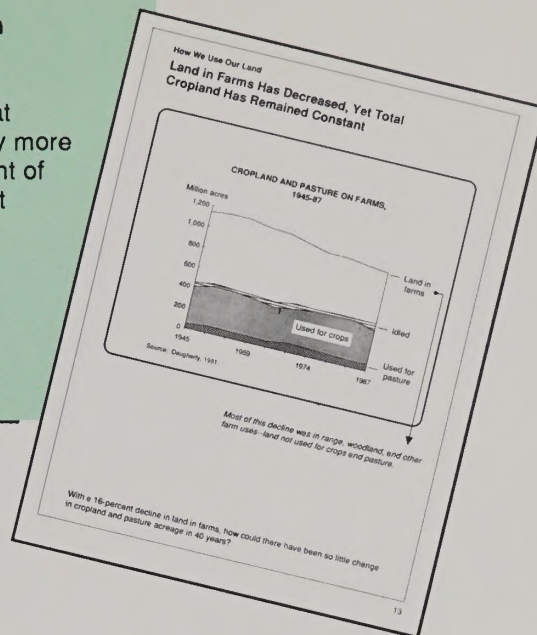


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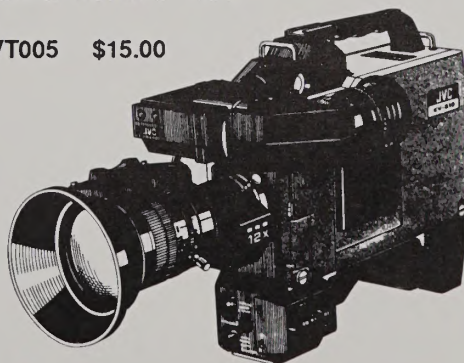
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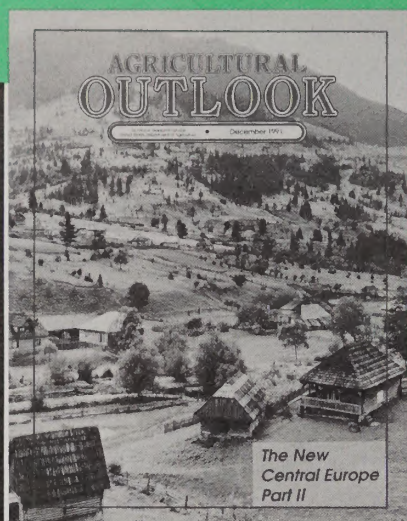
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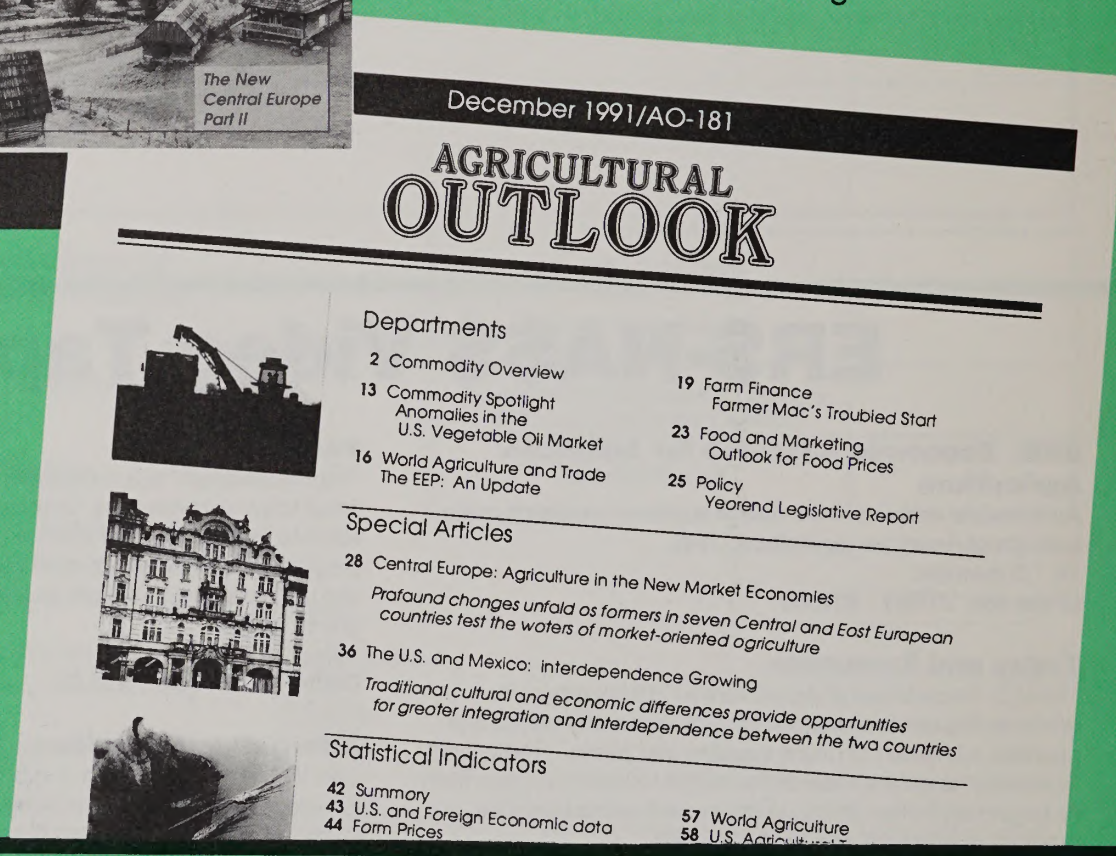


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